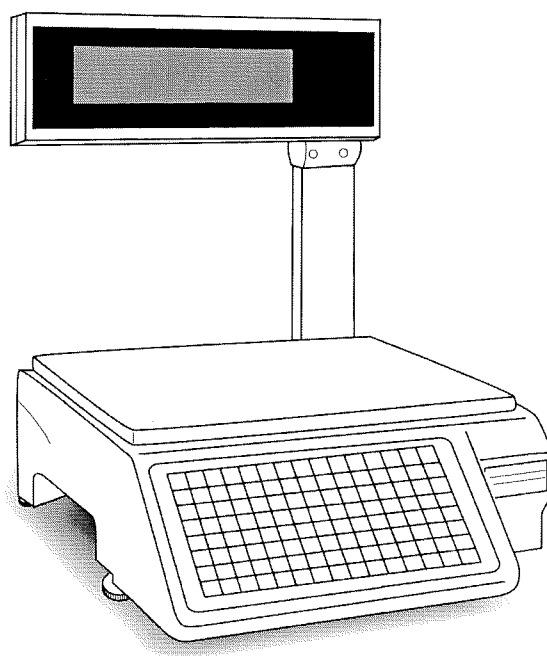




BC-4000

Service Manual



IMPORTANT

- Do not carry out installation, operation, service, or maintenance until thoroughly understanding the contents of this manual.
- Keep this manual available at all times for installation, operation, service, and maintenance.

ISHIDA CO., LTD.

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No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means mechanical, electronic, photocopying, recording, or otherwise without prior written permission of Ishida. No patent liability is assumed with respect to the use of the information contained herein. Moreover, because Ishida is constantly striving to improve its high-quality products, the information contained in this manual is subject to change without notice. Every precaution has been taken in the preparation of this manual. Nevertheless, Ishida assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained in this publication.

IMPORTANT NOTICE

Thank you for purchasing the ISHIDA OMNi-4000ST.

This manual explains the procedures to perform installation, operation, service, or maintenance of the machine.

Those who handle the machine must be aware of the hazards involved. These dangers may not be obvious, so it is imperative to follow the instructions detailed in this manual when installing, operating, inspecting, or servicing the machine. Therefore, we recommend that you thoroughly read and understand this manual before installing, operating, inspecting, or servicing the machine, and keep this manual in a safe place where you can refer to it whenever necessary.

ISHIDA is not liable for any damage, loss or injury that results from incorrect operation, insufficient caution, unauthorized modifications to the machine, or failure to follow the instructions contained in this manual.

In the recent weighing industry, the latent hazards involved with handling the machine have increased due to new materials, new processing methods, and higher processing speeds, and it is impossible to predict all of the possible dangers.

Likewise, there are far too many operations that cannot or should not be performed to fully describe all of them in the manual. Please assume that any handling or operation not specifically described in this manual should never be performed.

Safety countermeasures should be carefully considered and implemented before performing any installation, operation, inspection, or maintenance procedure not specifically described in this manual or indicated on the machine itself.

CHANGE IN SPECIFICATIONS

Machine specifications and accessories may be changed at any time due to improvements or other reasons. Consult with your ISHIDA representative at any time to confirm the actual specifications of the purchased machine.

ERRORS AND OMISSIONS

The information in this manual has been carefully checked and is believed to be accurate. However, please understand that the descriptions in this manual may not agree with the actual machine due to machine improvements. The information is subject to change without prior notice in the future. ISHIDA assumes no responsibility for clerical, typographical or proofreading errors, or omissions.

LIMITATIONS OF LIABILITY

ISHIDA assumes no responsibility for special, indirect, or consequential damages, loss of profits or commercial loss in any way connected with the machine, whether such claim is based on contract, warranty, negligence, or strict liability.

ISHIDA shall assume responsibility for problems with the machine or the system based on an individual maintenance contract. However, ISHIDA shall not be responsible for secondary problems. ISHIDA assumes no responsibility for the user's programming of this machine, or any consequence thereof.

In no event shall ISHIDA be responsible for warranty, repair, or other claims regarding the machine unless ISHIDA's analysis confirms that the machines were properly handled, stored, installed, and maintained and not subject to contamination, abuse, misuse, or inappropriate modification or repair.



SAFETY CONSIDERATIONS

This operation manual contains information necessary for operating the OMNi-4000ST.

It is strongly advised that the following safety measures must be observed to ensure the safe operation of the machine:

Properly ground machinery

As a Class 1 electrical device, this machine requires protective grounding for safe operation. To avoid any potential electrical shock, securely attach the protective ground wire to the main grounding provision.

Do not remove covers or enclosures

To avoid personal injury and shock, do not open or remove any covers or enclosures of the machine unless specified in the manual.

Do not perform unspecified maintenance

For your personal safety, do not perform any maintenance procedures which are not specified in the manual.

Disconnect power supply before servicing

To ensure your personal safety, disconnect the power supply before servicing.

Take precaution against residual electrical charge hazard

Capacitors inside the machine may still hold an electrical charge even after power is disconnected.

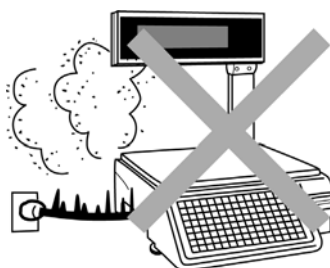
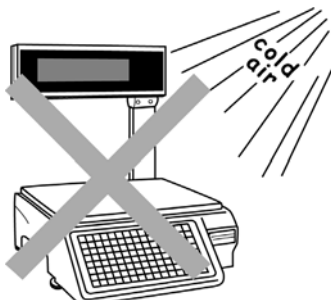
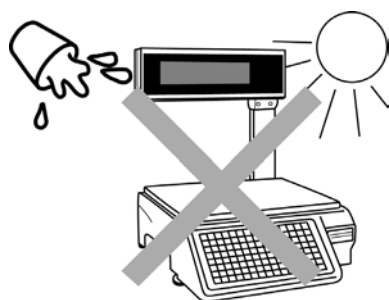


CAUTIONS FOR INSTALLATION

WARNING

Do not install the machine in the following types of places:

- Places subject to high temperatures or high humidity
- Places exposed to direct sunlight
- Places where water or other liquids are easily spilled on the machine
- Places subject to excessive vibration or unstable foundations
- Places exposed to direct cold air from air conditioners or refrigerators
- Places where the floor or foundation is unstable
- Places subject to a lot of dust or dirt
- Places with large voltage fluctuations

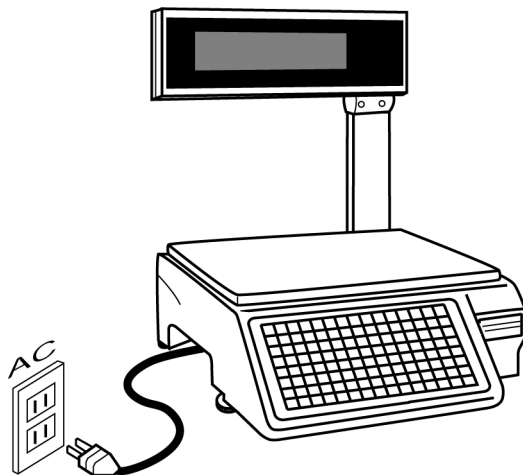


CAUTIONS FOR POWER SUPPLY

WARNING

Heed the following precautions about power supply:

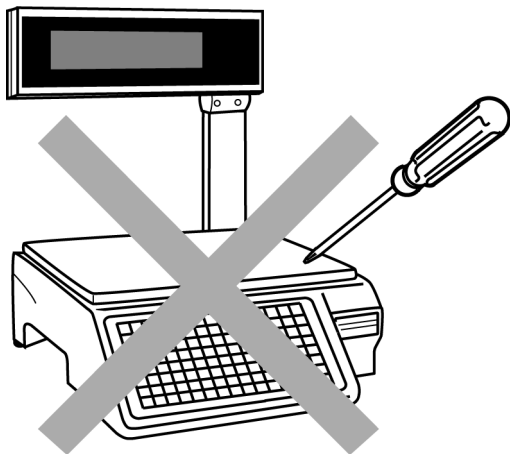
- Use a power supply with rated voltage ground.
- Prepare a dedicated power source.
A power supply that generates voltage variation may cause a malfunction.
- Do not stand on the power cord, and do not place anything heavy on the cord.
Doing so may damage the cord, resulting in accident or trouble.



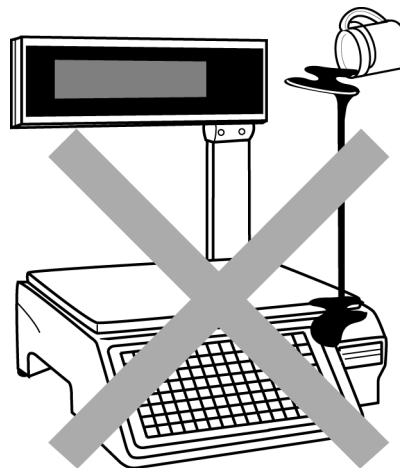


CAUTIONS FOR HANDLING

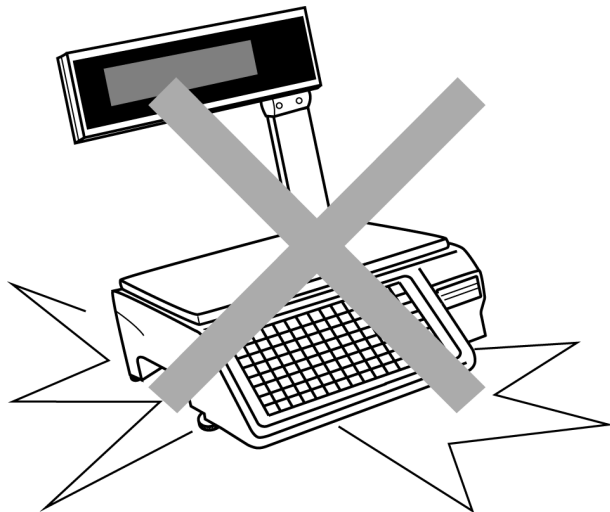
- ▶ Do not disassemble the machine.



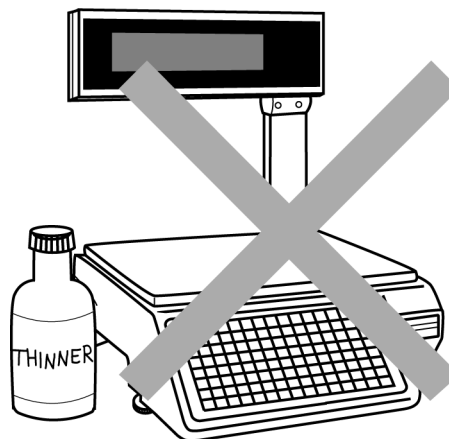
- ▶ Do not allow any liquids to come into contact with the machine.



- ▶ Do not drop or apply a strong shock to the machine.



- ▶ When cleaning the machine, only use a soft dry cloth or a cloth wetted with a neutral cleanser. Never use thinner or other volatile liquids.

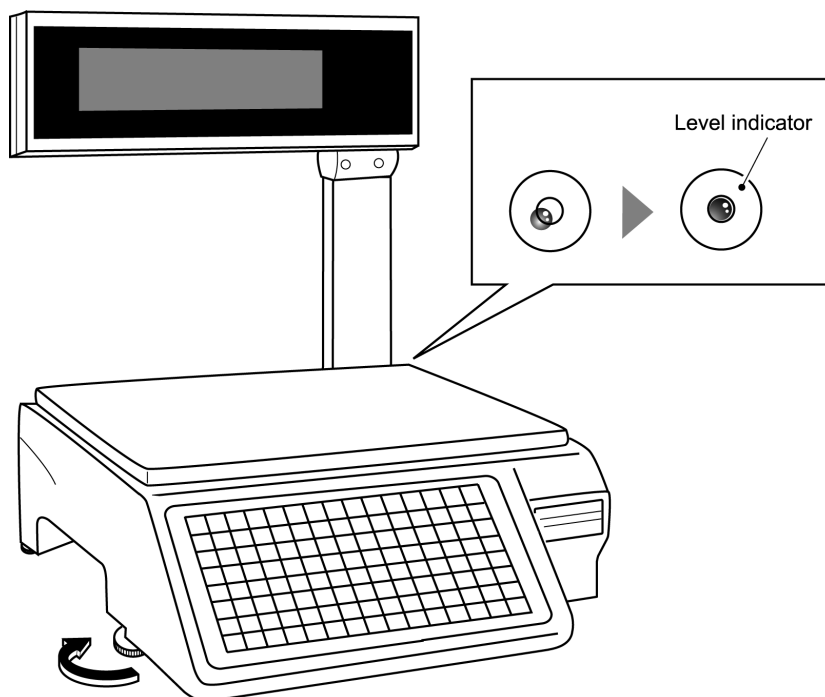




LEVEL ADJUSTMENT

WARNING

Ensure that the machine is level:



WARNING SYMBOLS

This machine is manufactured for use according to proper procedures by qualified service personnel and only for the purposes described in this manual.

The warning symbols in this manual and warning stickers affixed to the machine itself are divided into three categories depending on the level of danger or seriousness of potential injury. The definition for each of these warnings and precautions are shown below. Failure to heed these warnings and precautions may result in bodily injury or damage to the machine.



Indicates information that, if not heeded, is likely to result in loss of life or serious injury.



Indicates information that, if not heeded, could possibly result in loss of life or serious injury.



Indicates information that, if not heeded, could result in relatively serious or minor injury, damage to the machine, or faulty operation.

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1. OVERVIEW

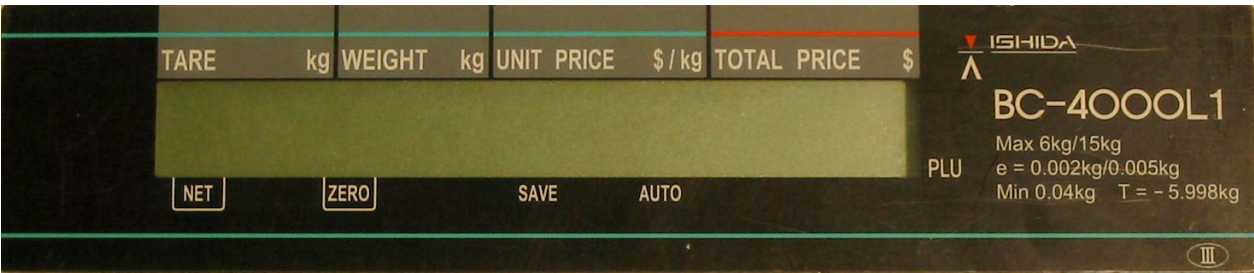
1.1 FRONT VIEW



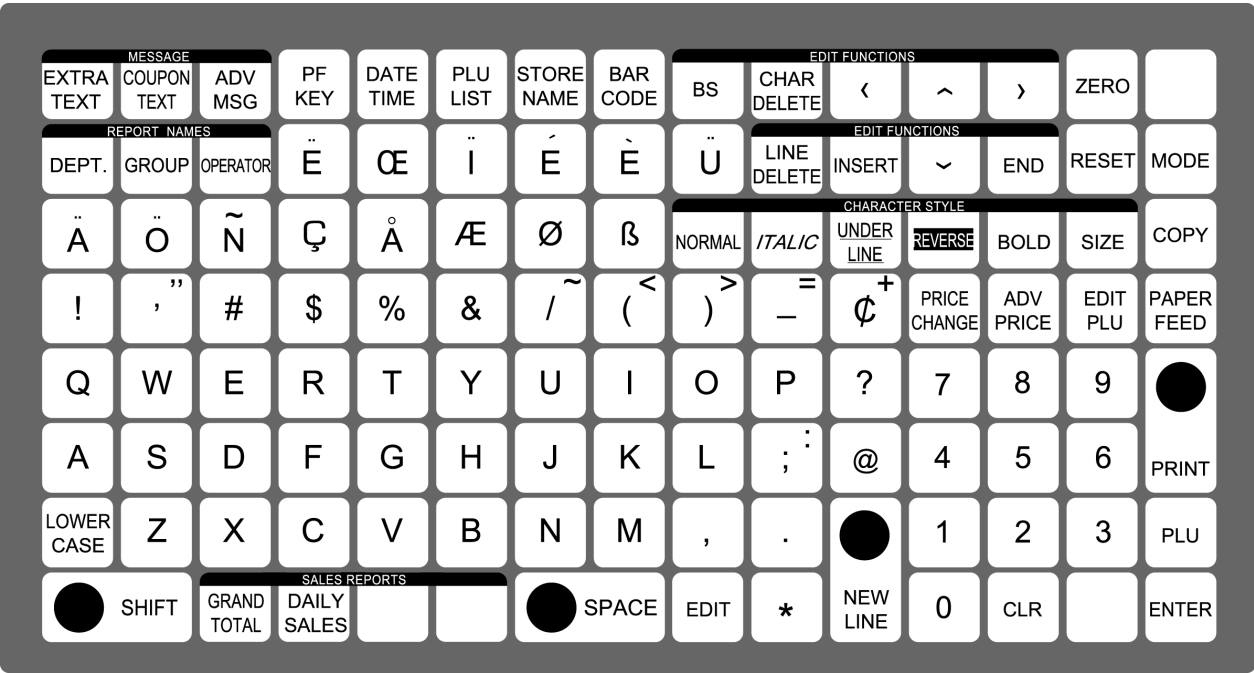
1.2 REAR VIEW



1.3 DISPLAY



1.4 KEY SHEET



1.5 SPECIFICATIONS

Item	Content
Product Name	BC-4000
Products Lineup	L1: Full dot L2: Full dot + 7-segment LCD type Note: Software and the resistor type used at the display harness are different between L1 and L2.
Weighing Capacity	15Kg: 0 - 6,000g / 2g, 6,000g - 15,000g / 5g, Multiple interval
Weighing Accuracy	1/3000
Scale Unit	0.002Kg / 0.005Kg
Minimum Weighing Capacity	0.04Kg
OS specification	µiTRON
Standard I/O	100BASE LAN × 1
Display	L1: 16 × 192 dots, monochrome LCD, one backlight color L2: 16 × 192 dots, 23-digit segment monochrome LCD, 2 backlight colors
Number of Keys	112 keys (92 membrane keys + 20 tact keys)
Printing Method	Direct, thermal method
Thermal Head	2-inch (448 dots, 8 dots/mm) monochrome thermal head
Printing Speed	80mm/sec.
Effective Print Size	Width 60mm
Label Size	Label external: ϕ 100mm, Paper core: ϕ 40mm Label width: Min. 38mm – Max. 64mm
Power Supply	AC220V $\pm$ 10% 50/60Hz
Operating Temperature	-10°C - +35°C
Operating Humidity	20-85% (non condensing)
External Dimensions	400(W) × 460(D) × 480(H)mm (including the pole height)
Weight	10kg or less
Option	Wireless LAN unit

2. SETUP MODE (B Mode)

2.1 ENTERING SETUP MODE

KEY	IN	ITEM	No.
0.000	0.000	0.00	0.00

Key in the numeric value "6000" and press the [MODE] key.
Then, the machine enters Setup Mode.

6	0	0	0	MODE	* SETUP b00 SETUP	PRESS [↓] KEY
---	---	---	---	------	------------------------------------	----------------------

2.2 B01 LABEL FORMAT

Press the [↓] key to enter B01 menu.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.2.1 B01-01 PRINT SETUP

Press the [ENTER] key to enter B01-01 menu.



* PRINT SETUP	[ENTER]
b01-01 PRINT	1

2.2.1.1 B01-01-01 Label Format Number

Label print format number can be set.

Operation

1. Press the [ENTER] key to enter B01-01-01 menu.



LABEL FORMAT No.	
b01-01-01 LABEL FMT	30

2. Key in the desired label format number and press the [ENTER] key.

#01 - #04: Standard label format (01: default value).

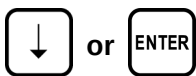
#31 - #99: Can be additionally registered.



2.2.1.2 B01-01-02 Label Length + Gap

Operation

1. Press the [↓] or [ENTER] key to enter B01-01-02 menu.



LENGTH+GAP(32.5to242.5)	
b01-01-02 LENGTH	39.5

2. Measure the length of the label and the gap.

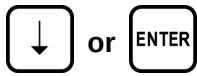
3. Key in the numeric value (0,1mm units), and press the [ENTER] key.



2.2.1.3 B01-01-03 Label Width

Operation

1. Press the [↓] or [ENTER] key to enter B01-01-03 menu.



WIDTH (30.0 to 200.0mm)	
b01-01-03 WIDTH	0.0

2. Measure the label width.

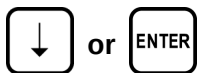
3. Key in the numeric value (0.1mm units), and press the [ENTER] key.



2.2.1.4 B01-01-04 Label Sensor Distance

Operation

1. Press the [↓] or [ENTER] key to enter B01-01-04 menu.



SENSOR DISTANCE (0.1mm)	
b01-01-04 DISTANCE	73.0

2. Key in the label sensor distance (between the label sensor and the thermal head), and press the [ENTER] key.

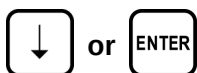
Note: Normally, this value is fixed at 73.0mm.



2.2.1.5 B01-01-05 Label Type Selection

Operation

1. Press the [↓] or [ENTER] key to enter B01-01-05 menu.



DIE-CUT=0, CONTINUOUS=1	
b01-01-05 CONTINUOUS	0

2. Key in the label type number (0: Die-cut labels (standard) or 1: Continuous labels) and press the [ENTER] key.



2.2.1.6 B01-01-06 Store Name/Address Print Selection**Operation**

1. Press the [↓] or [ENTER] key to enter B01-01-06 menu.



or



NAME, ADDRESS → 1:ENABLE b01-01-06 STORE 1
--

2. Use the [←] or [→] key to confirm the meaning of each item (code).



or



3. Key in the desired number (0 or 1) to determine whether or not to print the store name and address, and press the [ENTER] key.

0: Disable

1: Enable



or

**2.2.1.7 B01-01-07 Title (Unit Price or Weight) Print Selection****Operation**

1. Press the [↓] or [ENTER] key to enter B01-01-07 menu.



or



FIELD TITLE → 1:ENABLE b01-01-07 TITLE 1
--

2. Use the [←] or [→] key to confirm the meaning of each item (code).



or



3. Key in the desired number (0 or 1) to determine whether or not to print the title (unit price or weight) and press the [ENTER] key.

0: Disable

1: Enable

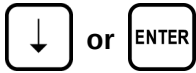


or



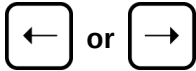
2.2.1.8 B01-01-08 Peel Sensor Selection**Operation**

1. Press the [↓] or [ENTER] key to enter B01-01-08 menu.



PEEL SENSOR → 1:ENABLE b01-01-08 PEEL	1
--	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).



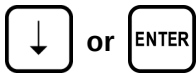
3. Key in the desired number (0 or 1) to determine whether or not to use the peel sensor and press the [ENTER] key.

0: Disable

1: Enable

**2.2.1.9 B01-01-09 PLU Number Setting for Test Printing****Operation**

1. Press the [↓] or [ENTER] key to enter B01-01-09 menu.

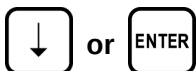


TEST ITEM No. b01-01-09 ITEM	00000001
---	-----------------

2. Key in the desired PLU number for test printing and press the [ENTER] key.

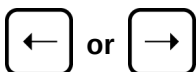
**2.2.1.10 B01-01-10 Thermal Head Check Selection****Operation**

1. Press the [↓] or [ENTER] key to enter B01-01-10 menu.



HEAD CHECK → 1:ENABLE b01-01-10 HEAD CHECK	1
---	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).



3. Key in the desired number (0 or 1) to determine whether or not to check the thermal head and press the [ENTER] key.

0: Disable

1: Enable

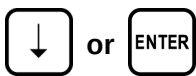


Note: When using this function, the buzzer sounds if the thermal head fails in Normal Mode.

2.2.1.11 B01-01-11 Subtotal Label Format Number

Operation

1. Press the [↓] or [ENTER] to enter B01-01-11 menu.



SUB TOTAL FORMAT No.
b01-01-11 SUB TOTAL 20

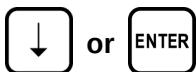
2. Key in the desired label format number for subtotal and press the [ENTER] key.



2.2.1.12 B01-01-12 Store Number Print Selection

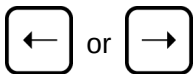
Operation

1. Press the [↓] or [ENTER] to enter B01-01-12 menu.



STORE No. PRN → 1:ENABLE
b01-01-12 STORE No. 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).



3. Key in the desired number (0 or 1) to determine whether or not to print the store number and press the [ENTER] key.

0: Disable

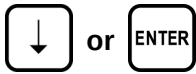
1: Enable



2.2.1.13 B01-01-13 Machine Number Print Selection

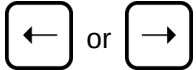
Operation

1. Press the [↓] or [ENTER] to enter B01-01-13 menu.



MACH. No. PRN → 1:ENABLE
b01-01-13 STORE No. 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).



3. Key in the desired number (0 or 1) to determine whether or not to print the machine number and press the [ENTER] key.

0: Disable

1: Enable



2.2.1.14 Returning to B01

Operation

Press the [END] key to return to B01 menu.



1 LABEL FORMAT [ENTER]
b01 LABEL FORMAT

2.2.2 B01-02 LABEL FORMAT

Operation

1. Press the [ENTER] key to enter B01-01 menu.



*** PRINT SETUP [ENTER]**
b01-01 PRINT 1

2. Press the [↓] key to enter B01-02 menu.



*** LABEL EDIT [ENTER]**
b01-02 FORMAT

3. To proceed further steps, key in "4141" and press the [SIZE] key.



2.2.2.1 B01-02-01 Label Format Copy**Operation**

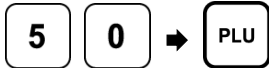
1. Press the [ENTER] key to enter B01-02-01 menu.



* FORMAT No. + [PLU]	(30)
b01-02-01 FORMAT No	30

2. Key in the desired label format number (copy destination) and press the [PLU] key.

Example: Label format number "50"



* FORMAT No. + [PLU]	(50)
b01-02-01 FORMAT No	50

3. Key in the desired label format number (copy origin) and press the [COPY] key.

Example: Label format number "2"



* FORMAT No. + [PLU]	(02)
b01-02-01 FORMAT No	02

Note: Format #1 through #4 are standard label formats and cannot be changed.

For format # 31 through #99, edit the format after copying a standard format.

2.2.2.2 B01-02-02 Print Position Data

Printing position can be set for each unit.

Operation

1. Press the [↓] key to enter B01-02-02 menu.



* UNIT	[ENTER]
b01-02-02 UNIT	

2. Press the [ENTER] key to proceed to the next step.



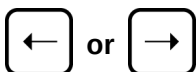
0:X AXIS POSITION	(0552)
b01-02-02 0n00	0

0: X axis
1: Y axis

Unit number (1-22)

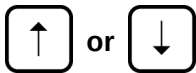
Print position
(in 0.1mm units)

3. Select "1" (Y axis) or "0" (X axis) using the [←] or [→] key.

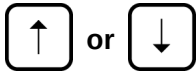


0:Y AXIS POSITION	(0490)
b01-02-02 1n00	0

4. Select the desired unit number using the [↑] or [↓] key.



0:Y AXIS POSITION	(0055)
b01-02-02 1n31	0



0:X AXIS POSITION	(0019)
b01-02-02 0n01	0

5. Key in the print position data (axis value) in 0.1mm units and press the [ENTER] key.

Note: Print position data cannot be changed for standard format #1 through #4.



6. Press the [END] key to return to the B01-02-01 menu.



* FORMAT No. + [PLU]	(30)
b01-02-01 FORMAT No	30

2.2.2.3 B01-02-03 Default PLU Number

Operation

1. Press the [↓] key twice to enter 01-02-03 menu.



* DEFAULT PLU	[ENTER]
b01-02-03 PLU	00000001

2. Key in the desired PLU number and press the [ENTER] key.

Example: PLU number "2"



* DEFAULT PLU	[ENTER]
b01-02-03 PLU	00000002

3. Press the [PRINT] key to issue a test label to confirm print position for each print unit.



2.2.2.4 Returning to B01-02-01

Operation

Press the [END] key to return to B01-02-01 menu.



* FORMAT No. + [PLU]	(30)
b01-02-01 FORMAT No	30

2.2.2.5 B01-02-04 Print Unit Data

Operation

1. Press the [↓] key repeatedly until 01-02-04 menu appears, or key in “4” and press the [↓] key to enter 01-02-04 menu directly.



*** UNIT DATA [ENTER]**
b01-02-04 UNIT DATA

2. Press the [ENTER] key.



FMT No / Unit No / Addr / Data
b01-02-04 30 01 1d 1A30

Label format
number

Unit
number

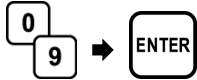
Address
data

Input data

3. Select the desired position using the [←] [→] [↑] [↓] keys.



4. Key in the desired print unit data and press the [ENTER] key.



2.2.2.6 Returning to B01-02-01

Operation

Press the [END] key to return to B01-02-01 menu.



*** FORMAT No. + [PLU] (30)**
b01-02-01 FORMAT No 30

2.2.2.7 B01-02-05 Number of Units

Operation

1. Press the [↓] key repeatedly until 01-02-05 menu appears, or key in “5” and press the [↓] key to enter 01-02-05 menu directly.



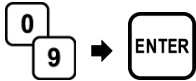
NUMBER OF UNIT [ENTER]
b01-02-05 No OF UNIT

2. Press the [ENTER] key.



NUMBER OF
b01-02-05 No OF UNIT 22

3. Key in the desired number of units and press the [ENTER] key.



2.2.2.8 Returning to B01-02-01

Operation

Press the [END] key to return to B01-02-01 menu.



* FORMAT No. + [PLU]	(30)
b01-02-01 FORMAT No	30

2.2.2.9 B01-02-06 Length + Gap

Operation

1. Press the [↓] key repeatedly until 01-02-06 menu appears, or key in “6” and press the [↓] key to enter 01-02-06 menu directly.



LENGTH + GAP (32.5 to 242.5)
b01-02-06 LENGTH
0.0

2. Key in the desired data (Length + Gap) in 0.1mm units and press the [ENTER] key.



2.2.2.10 Returning to B01-01

Press the [END] key to return to B01-01.



* PRINT SETUP	[ENTER]
b01-01 PRINT	1

2.2.2.11 Returning to B01

Operation

Press the [END] key again to return to B01.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.3 B02 BARCODE SETTING

Operation

Press the [↓] key to enter B02 menu.



2 POS CODE [ENTER]
b02 POS CODE

2.3.1 B02-01 POS FLAG

POS flag can be set.

Example: Set “202” as a POS flag.

Operation

1. Press the [ENTER] key to enter B02-01 menu.



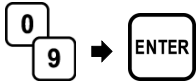
FLAG 8: 1 Digit, 13:2 Digits
b02-01 POS FLAG

202

POS flag 8

POS flag 13

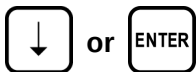
2. Key in the desired POS flag code (barcode prefix) and press the [ENTER] key.



2.3.2 B02-02 10 DIGIT FLAG

Operation

1. Press the [↓] or [ENTER] key to enter B02-02 menu.



10 DIGIT FLAG 8(13):2 Dig
b02-02 10 DIG FLAG

4949

PLU8

PLU13

FF*****C/D or FF*****C/D

10-digit fixed POS code

5-digit fixed POS code

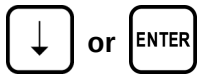
2. Key in the desired flag code for source marking and press the [ENTER] key.



2.3.3 B02-03 BARCODE TYPE

Operation

1. Press the [↓] or [ENTER] key to enter B02-03 menu.



BAR TYPE	→ 1:NON PLU 13
b02-03 BAR TYPE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

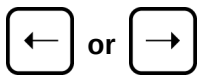
1: NON PLU 13 (EAN code)

2: NON PLU 8 (EAN code)

3: PLU 13 (EAN code)

4: PLU 8 (EAN code)

5: ITF 18



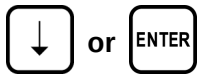
3. Key in the desired barcode type number and press the [ENTER] key.



2.3.4 B02-04 POS TYPE

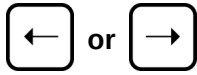
Operation

1. Press the [↓] or [ENTER] key to enter B02-04 menu.



POS TYPE → 1:F2C5 (CP) P4
b02-04 POS TYPE 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).



3. Key in the desired POS type number and press the [ENTER] key.



<POS Type Numebr>

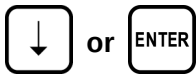
- 1: F F C C C C C (C/P) P P P P (C/D)
- 2: F F C C C C C C P P P P (C/D)
- 3: F C C C C C C (C/P) P P P P (C/D)
- 4: F F C C C C C C P P P P (C/D)
- 5: F C C C C C C C P P P P (C/D)
- 6: F F C C C C C (C/P) P P P P P (C/D)
- 7: F F C C C C C C C W W W W (C/D)
- 8: F C C C C C C W W W W W (C/D)
- 9: F C C C C C I I I I I (C/D)
- 10: F F C C C C C C P P P P (C/D)
- 11: F F C C C C C C W W W W (C/D)
- 12: F F C C C C C (C/P) W W W W W (C/D)
- 13: F F M M C C C P P P P P (C/D)
- 14: F F M M C C C C P P P P P (C/D)
- 15: F F C C C C C (0) P P P P (C/D)
- 16: F F C C C C C W W W W W (C/D)
- 17: F F C C C C C C P P P P P (C/D)
- 18: F F C C C C C C (C/P) P P P P (C/D)
- 19: F F C C C C C C (C/P) W W W W (C/D)
- 20: F C C C C C C P P P P P (C/D)
- 21: F F C C C C C C P P P P P (C/D)
- 22: F C C C W W W W P P P P (C/D)
- 23: F F C C C C C Q Q P P P P (C/D)
- 24: F I I I I I I P P P P P (C/D)
- 25: F F I I I I I P P P P P (C/D)
- 26: F C C C C C P P P P P P P (C/D)
- 27: F I I I I I I P P P P P (C/D)
- 28: F F I I I I I P P P P P (C/D)
- 29: F C C C C C C C P P P P P (C/D)
- 30: F F C C C C C C C P P P P (C/D)
- 31: F F C C C C C C Q Q Q Q Q (C/D)

(F: Flag, C: Commodity code, P: Price, W: Weight, I: Item code, Q: Quantity,
 M: Manufacturer code, C/P: Check price, C/D: Check didit)

2.3.5 B02-05 ITF 18 DIGIT BARCODE TYPE

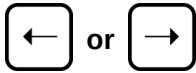
Operation

1. Press the [↓] or [ENTER] key to enter B02-05 menu.



ITF → 1:F2C5P5W5/Q5
b02-05 ITF BAR 0

2. Use the [←] or [→] key to confirm the meaning of each item (code).



3. Key in the desired barcode type number and press the [ENTER] key.



<ITF 18 Digit Barcode Type Number> (U: Unit price)

1: F F C C C C C P P P P P W W W W W (C/D)/

F F C C C C C P P P P P Q Q Q Q Q (C/D)

2: F F C C C C C U U U U U W W W W W (C/D)

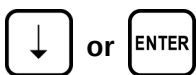
3: F F C C C C C P P P P P W W W W W (C/D)

4: F F C C C C C P P P P P Q Q Q Q Q (C/D)

2.3.6 B02-06 MANUFACTURER CODE

Operation

1. Press the [↓] or [ENTER] key to enter B02-06 menu.



MANUFACTURE CODE (4 Dig)
b02-06 MANUFACTURE 0000

2. Key in the desired manufacturer code and press the [ENTER] key.



2.3.7 RETURNING TO B01

Operation

Press the [END] key to return to B01 menu.



1 LABEL FORMAT [ENTER]
b01 LABEL FORMAT

2.4 B03 BARCODE

Press the [↓] key repeatedly until B03 menu appears, or key in “3” and press the [↓] key to enter B03 menu directly.



3 ITEM CODE SET [ENTER]
b03 CODE POSITION

2.4.1 B03-01 ITEM CODE POSITION

Operation

1. Press the [ENTER] key to enter B03-01 menu.



ITEM CODE SET (BARCODE)
b03-01 BARCODE 45

2. Key in the item code position (starting position and the number of digits in the barcode), and press the [ENTER] key.

Note: Three types are available, “45”, “36” and “27” (default value is “45”).



Example: Item code “4567892” Set value “45”

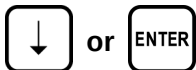
“45” means 5 digits from the 4th digit of the item code.

In this example, the item code is “67892”.

2.4.2 B03-02 DEPARTMENT CODE POSITION

Operation

1. Press the [↓] or [ENTER] key to enter B03-02 menu.



ITEM CODE SET (DEPT)
b03-02 DEPARTMENT 34

2. Key in the item code position (starting position and the number of digits in the department code), and press the [ENTER] key.



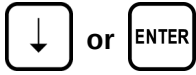
Example: Item code: “34567892”, Set value: “34”.

In this example, the department code is “5678” that are 4 digits from the 3rd digit.

2.4.3 B03-03 GROUP CODE POSITION

Operation

1. Press the [↓] or [ENTER] key to enter B03-03 menu.



ITEM CODE SET (GROUP)	
b03-03 GROUP	32

2. Key in the item code position (starting position and the number of digits in the group code) and press the [ENTER] key.



Example: Item code: "12345678", Set value: "32".

In this example, the group code is "34" that are 2 digits from the 3rd digit.

2.4.4 RETURNING TO B01

Operation

Press the [END] key to return to B01 menu.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.5 B04 DEFAULT SETTING

Operation

Press the [↓] key repeatedly until B04 menu appears, or key in “4” and press the [↓] key to enter B04 menu directly.



4 DEFAULT [ENTER]
b04 DEFAULT

2.5.1 B04-01 DATE PRINT

Operation

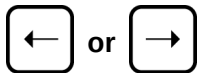
1. Press the [ENTER] key to enter B04-01 menu.



DATE PRINT → 4:BOTH
b04-01 DATE FLAG **4**

2. Use the [←] or [→] key to confirm the meaning of each item (code).

- 1: Prohibit (No print)
- 2: Pack date
- 3: Use-by date
- 4: Both (Print both)



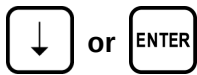
3. Key in the desired number to determine whether or not to print dates and press the [ENTER] key.



2.5.2 B04-02 USE BY DAYS

Operation

1. Press the [↓] or [ENTER] key to enter B04-02 menu.



USE BY (0 to 999)
b04-02 USE BY **1**

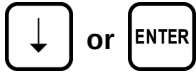
2. Key in the number of days for Use By period and press the [ENTER] key.



2.5.3 B04-03 PACK TIME PRINT

Operation

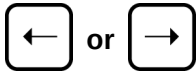
1. Press the [↓] or [ENTER] key to enter B04-03 menu.



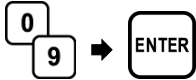
PACK TIME → 1:PROHIBIT b04-03 P TIME	1
---	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).

- 1: Prohibit (No print)
- 2: Installed (System time print)
- 3: Designated time print



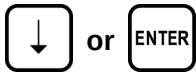
3. Key in the desired number to determine whether or not to print the pack time and press the [ENTER] key.



2.5.4 B04-04 EXPIRY TIME PRINT

Operation

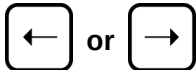
1. Press the [↓] or [ENTER] key to enter B04-04 menu.



EXPIRY TIME → 1:PROHIBIT b04-04 E TIME	1
---	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).

- 1: Prohibit (No print)
- 2: Relative time print
- 3: Designated time print



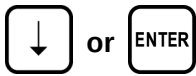
3. Key in the desired number to determine whether or not to print the expiry time and press the [ENTER] key.



2.5.5 B04-05 BEST BEFORE DATE PRINT

Operation

1. Press the [↓] or [ENTER] key to enter B04-05 menu.

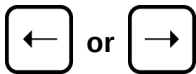


BEST BEFORE → 1:NO PRINT
b04-05 BEFORE F 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

1: No print

2: Print



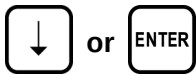
3. Key in the desired number to determine whether or not to print the Best Before date and press the [ENTER] key.



2.5.6 B04-06 BEST BEFORE DATE

Operation

1. Press the [↓] or [ENTER] key to enter B04-06 menu.



BEST BEFORE DATE (0 – 999)
b04-06 BEFORE D 1

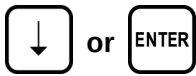
3. Key in the desired number of days for Best Before date and press the [ENTER] key.



2.5.7 B04-07 UNIT TYPE

Operation

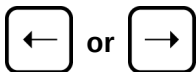
1. Press the [↓] or [ENTER] key to enter B04-07 menu.



UNIT TYPE → 5:PC(S). b04-07 UNIT TYPE	5
--	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).

- 1: oz
- 2: lb
- 3: kg
- 4: g
- 5: PC(S).
- 6: BOX(ES)
- 7: BUNDLE(S)
- 8: PACK(S)
- 9: CUT(S)
- 10: SLICE(S)
- 11: CUP(S)
- 12: PKT(S)
- 13: BAG(S)
- 14: BUCH(S)
- 15: BOTTLE(S)
- 16: LB



3. Key in the desired number to select the unit type and press the [ENTER] key.



2.5.8 RETURNING TO B01

Operation

Press the [END] key to return to B01.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.6 TOTAL MODE SELECTION

Operation

Press the [(] key repeatedly until B05 menu appears, or key in “5” and press the [(] key to enter B05 menu directly.

((

5 TOTAL SELECT b05 TOTAL SELECT	[ENTER]
---	----------------

2.6.1 B05-01 DAILY TOTAL

Operation

1. Press the [ENTER] key to enter B05-01 menu.

ENTER

DAILY TOTAL → 1:ENABLE b05-01 DAILY	1
---	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

← or →

3. Key in the desired number to determine whether or not to use the daily total function and press the [ENTER] key.

0
9 → ENTER

2.6.2 B05-02 WEEKLY TOTAL

Operation

1. Press the [ENTER] key to enter B05-02 menu.

ENTER

WEEKLY TOTAL → 1:ENABLE b05-02 WEEKLY	1
---	----------

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

← or →

3. Key in the desired number to determine whether or not to use the weekly total function and press the [ENTER] key.

0
9 → ENTER

2.6.3 B05-03 MONTHLY TOTAL

Operation

1. Press the [ENTER] key to enter B05-03 menu.

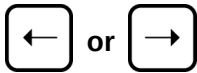


MONTHLY TOTAL → 1:ENABLE b05-03 MONTHLY	1
--	----------

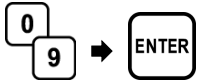
2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the desired number to determine whether or not to use the weekly total function and press the [ENTER] key.



2.6.4 RETURNING TO B01

Operation

Press the [END] key to return to B01 menu.



1 LABEL FORMAT b01 LABEL FORMAT	[ENTER]
--	----------------

2.7 B07 OPEN PRICE

Operation

Press the [↓] key repeatedly until B07 menu appears, or key in "7" and press the [↓] key to enter B07 menu directly.



7 OPEN PRICE	[ENTER]
b07 OPEN PRICE	

2.7.1 B07-01 OPEN PRICE SELECTION

Operation

1. Press the [ENTER] key to enter B07-01 menu.

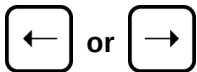


OPEN PRICE → 0:ALLOW
b07-01 OPEN PRICE 0

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Allow

1: Prohibit



3. Key in the number (0 or 1) to determine whether or not to allow open price function and press the [ENTER] key.



2.7.2 RETURNING TO B01

Operation

Press the [END] key to return to B01 menu.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.8 PLU SELECTION

Operation

Press the [↓] key repeatedly until B08 menu appears, or key in "8" and press the [↓] key to enter B08 menu directly.

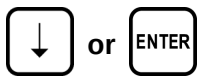


8 PLU SELECT	[ENTER]
b08 PLU SELECT	

2.8.1 B08-02 SALES MODE

Operation

1. Press the [↓] or [ENTER] key to enter B08-02 menu.

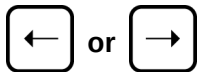


SALES MODE	
b08-02 SALES MODE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the sales mode function and press the [ENTER] key.



2.8.2 B08-03 UNIT PRICE

Operation

1. Press the [(] or [ENTER] key to enter B08-03 menu.

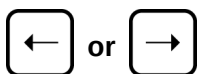
or

UNIT PRICE	(1:ENABLE
b08-03 PRICE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



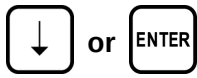
3. Key in the number (0 or 1) to determine whether or not to use the unit price function and press the [ENTER] key.



2.8.3 B08-04 MARKDOWN FLAG

Operation

1. Press the [↓] or [ENTER] key to enter B08-04 menu.

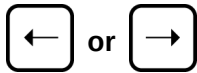


MD FLAG	→ 1:ENABLE
b08-04 MD FLAG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



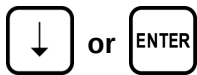
3. Key in the number (0 or 1) to determine whether or not to use the markdown function and press the [ENTER] key.



2.8.4 B08-05 MARKDOWN PRICE

Operation

1. Press the [↓] or [ENTER] key to enter B08-05 menu.

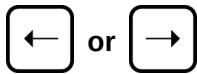


MD PRICE	→ 1:ENABLE
b08-05 MD PRICE	1

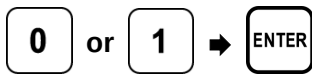
2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



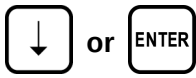
3. Key in the number (0 or 1) to determine whether or not to use the markdown price function and press the [ENTER] key.



2.8.5 B08-06 FIXED WEIGHT

Operation

1. Press the [↓] or [ENTER] key to enter B08-06 menu.

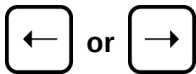


FIXED WEIGHT	→ 1:ENABLE
b08-06 FIXED WEIGHT	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



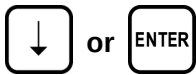
3. Key in the number (0 or 1) to determine whether or not to use the fixed weight function function and press the [ENTER] key.



2.8.6 B08-07 QUANTITY

Operation

1. Press the [↓] or [ENTER] key to enter B08-07 menu.

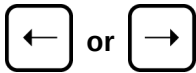


PCS	→ 1:ENABLE
b08-07 PCS	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the quantity function function and press the [ENTER] key.

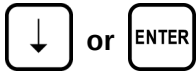


2.8.7 B08-08 TARE

Note that “Tare 2” is not available.

Operation

1. Press the [↓] or [ENTER] key to enter B08-08 menu.

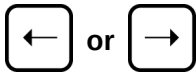


TARE1	→ 1:ENABLE
b08-08 TARE1	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



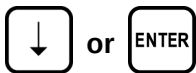
3. Key in the number (0 or 1) to determine whether or not to use the tare function and press the [ENTER] key.



2.8.8 B08-09 DATE PRINT

Operation

1. Press the [↓] or [ENTER] key to enter B08-09 menu.

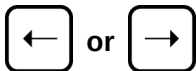


DATE PRINT	→ 1:ENABLE
b08-09 DATE PRNT	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



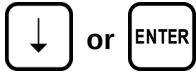
3. Key in the number (0 or 1) to determine whether or not to use the date print function and press the [ENTER] key.



2.8.9 B08-10 SHELF LIFE

Operation

1. Press the [↓] or [ENTER] key to enter B08-10 menu.

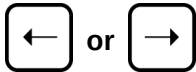


DATE PRINT	→ 1:ENABLE
b08-10 SHELF LIFE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



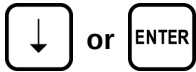
3. Key in the number (0 or 1) to determine whether or not to use the Shelf Life function and press the [ENTER] key.



2.8.10 B08-11 BEST BEFORE DATE FLAG

Operation

1. Press the [↓] or [ENTER] key to enter B08-11 menu.

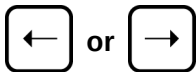


B BEFORE FLAG	→ 1:ENABLE
b08-11 B BEF FLG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

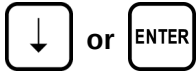


3. Key in the number (0 or 1) to determine whether or not to use the Best Before date function and press the [ENTER] key.



2.8.11 B08-12 BEST BEFORE DATE DATA**Operation**

1. Press the [↓] or [ENTER] key to enter B08-12 menu.

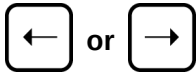


B BEFORE DATE → 1:ENABLE
b08-12 B BEF DATE 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

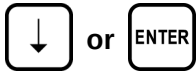
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the Best Before date data function and press the [ENTER] key.

**2.8.12 B08-13 PACK TIME FLAG****Operation**

1. Press the [↓] or [ENTER] key to enter B08-13 menu.

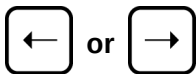


P.TIME FLAG → 1:ENABLE
b08-13 P TIME FLG 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

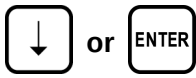


3. Key in the number (0 or 1) to determine whether or not to use the pack time function and press the [ENTER] key.



2.8.13 B08-14 PACK TIME DATA**Operation**

1. Press the [↓] or [ENTER] key to enter B08-14 menu.

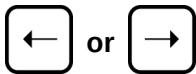


P TIME DATA	→ 1:ENABLE
b08-14 P TIME DATA	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

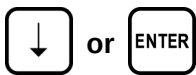
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the pack time data function and press the [ENTER] key.

**2.8.14 B08-15 EXPIRY TIME FLAG****Operation**

1. Press the [↓] or [ENTER] key to enter B08-15 menu.

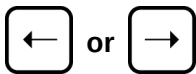


E. TIME FLAG	→ 1:ENABLE
b08-15 E TIME FLG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

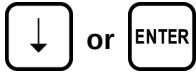


3. Key in the number (0 or 1) to determine whether or not to use the expiry time function and press the [ENTER] key.



2.8.15 B08-16 EXPIRY TIME DATA**Operation**

1. Press the [↓] or [ENTER] key to enter B08-16 menu.

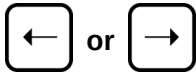


E. TIME DATA	→ 1:ENABLE
b08-16 E TIME DATA	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

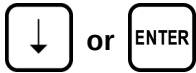
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the expiry time data function and press the [ENTER] key.

**2.8.16 B08-17 ITEM CODE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-17 menu.

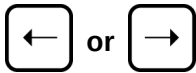


ITEM CODE	→ 1:ENABLE
b08-17 ITEM CODE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

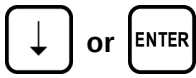


3. Key in the number (0 or 1) to determine whether or not to use the item code function and press the [ENTER] key.



2.8.17 B08-18 BARCODE TYPE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-18 menu.

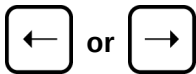


BAR TYPE	→ 1:ENABLE
b08-18 BAR TYPE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

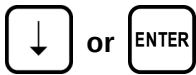
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the barcode type function and press the [ENTER] key.

**2.8.18 B08-19 POS TYPE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-19 menu.

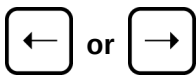


POS TYPE	→ 1:ENABLE
b08-19 POS TYPE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

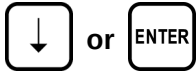


3. Key in the number (0 or 1) to determine whether or not to use the POS type function and press the [ENTER] key.



2.8.19 B08-20 POS FLAG**Operation**

1. Press the [↓] or [ENTER] key to enter B08-20 menu.

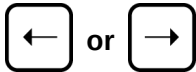


POS FLAG	→ 1:ENABLE
b08-20 POS FLAG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

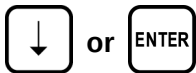
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the POS function and press the [ENTER] key.

**2.8.20 B08-21 POS CODE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-21 menu.

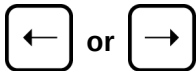


POS CODE	→ 1:ENABLE
b08-21 POS CODE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

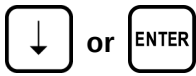


3. Key in the number (0 or 1) to determine whether or not to use the POS code function and press the [ENTER] key.



2.8.21 B08-22 OPEN PRICE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-22 menu.

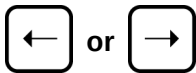


OPEN PRICE	→ 1:ENABLE
b08-22 OPEN PRICE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



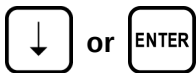
3. Key in the number (0 or 1) to determine whether or not to use the open price function and press the [ENTER] key.

**2.8.22 B08-23 COMMODITY MESSAGE**

Note that "Commodity message" can also be called "Extra message".

Operation

1. Press the [↓] or [ENTER] key to enter B08-23 menu.

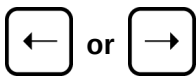


COMMODITY MSG	→ 1:ENABLE
b08-23 COMMODITY MSG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the commodity message function and press the [ENTER] key.



2.8.23 B08-24 INGREDIENTS MESSAGE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-24 menu.



or



INGRED MSG	→ 1:ENABLE
b08-24 INGREDIENTS MSG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



or



3. Key in the number (0 or 1) to determine whether or not to use the ingredients message function and press the [ENTER] key.



or

**2.8.24 B08-25 NUTRITION INFORMATION PANEL MESSAGE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-25 menu.



or



NIP MESSAGE	→ 1:ENABLE
b08-25 NIP MESSAGE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



or



3. Key in the number (0 or 1) to determine whether or not to use the NIP message function and press the [ENTER] key.



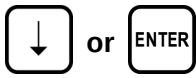
or



2.8.25 B08-27 COUPON MESSAGE

Operation

1. Press the [↓] or [ENTER] key to enter B08-26 menu.

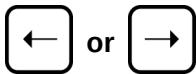


COUPON MSG	→ 1:ENABLE
b08-26 COUPON	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



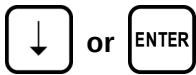
3. Key in the number (0 or 1) to determine whether or not to use the coupon message function and press the [ENTER] key.



2.8.26 B08-27 LOGO IMAGE 1

Operation

1. Press the [↓] or [ENTER] key to enter B08-27 menu.

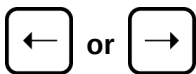


LOGO IMAGE 1	→ 1:ENABLE
b08-27 LOGO 1	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

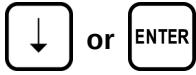


3. Key in the number (0 or 1) to determine whether or not to use the Logo Image1 function and press the [ENTER] key.



2.8.27 B08-28 LOGO IMAGE 2**Operation**

1. Press the [↓] or [ENTER] key to enter B08-28 menu.

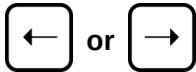


LOGO IMAGE 2 → 1:ENABLE
b08-28 LOGO 2 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

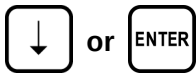
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the Logo Image 2 function and press the [ENTER] key.

**2.8.28 B08-29 LABEL FORMAT NUMBER****Operation**

1. Press the [↓] or [ENTER] key to enter B08-29 menu.

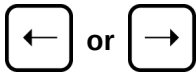


LABEL FMT No. → 1:ENABLE
b08-29 FORMAT 1 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



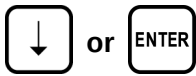
3. Key in the number (0 or 1) to determine whether or not to use the label format number function and press the [ENTER] key.



Note: Steps “b08-30” and “b08-31” are not available.

2.8.29 B08-32 UPPER LIMIT**Operation**

1. Press the [↓] or [ENTER] key to enter B08-32 menu.

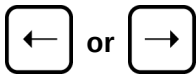


UPPER LIMIT	→ 1:ENABLE
b08-32 UPPER	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

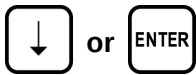
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the upper limit function and press the [ENTER] key.

**2.8.30 B08-33 LOWER LIMIT****Operation**

1. Press the [↓] or [ENTER] key to enter B08-33 menu.

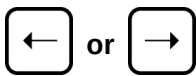


LOWER LIMIT	→ 1:ENABLE
b08-33 LOWER	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

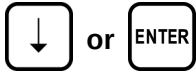


3. Key in the number (0 or 1) to determine whether or not to use the lower limit function and press the [ENTER] key.



2.8.31 B08-34 UNIT TYPE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-34 menu.

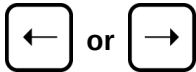


UNIT TYPE	→ 1:ENABLE
b08-34 UNIT TYPE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

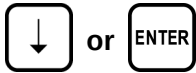
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the unit type function and press the [ENTER] key.

**2.8.32 B08-35 DEPARTMENT CODE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-35 menu.

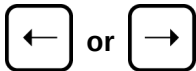


DEPT CODE	→ 1:ENABLE
b08-35 DEPARTMENT	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

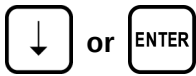


3. Key in the number (0 or 1) to determine whether or not to use the department code function and press the [ENTER] key.



2.8.33 B08-36 GROUP CODE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-36 menu.

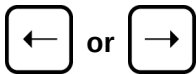


GROUP CODE	→ 1:ENABLE
b08-36 GROUP	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

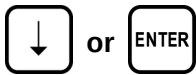
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the group code function and press the [ENTER] key.

**2.8.34 B08-37 REGISTER CODE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-37 menu.

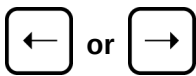


REGISTER CODE	→ 1:ENABLE
b08-37 REGISTER	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

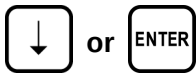


3. Key in the number (0 or 1) to determine whether or not to use the register code function and press the [ENTER] key.



2.8.35 B08-38 COST PRICE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-38 menu.

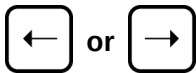


COST PRICE	→ 1:ENABLE
b08-38 COST PRICE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

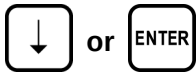
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the cost price function and press the [ENTER] key.

**2.8.36 B08-39 POP NUMBER****Operation**

1. Press the [↓] or [ENTER] key to enter B08-39 menu.

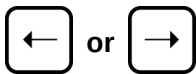


POP NUMBER	→ 1:ENABLE
b08-39 POP	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



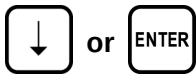
3. Key in the number (0 or 1) to determine whether or not to use the POP number function and press the [ENTER] key.



Note: Step "b08-40" is not available.

2.8.37 B08-41 STORAGE MESSAGE**Operation**

1. Press the [↓] or [ENTER] key to enter B08-41 menu.

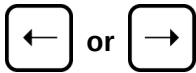


STORAGE MSG → 1:ENABLE
b08-41 STORAGE MSG 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

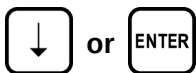
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the storage message function and press the [ENTER] key.

**2.8.38 B08-42 ADVISORY MESSAGE****Operation**

1. Press the [↓] or [ENTER] key to enter B08-42 menu.

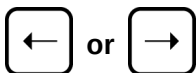


ADVISORY MSG → 1:ENABLE
b08-42 ADVISORY MSG 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the advisory message function and press the [ENTER] key.

**2.8.39 RETURNING TO B01****Operation**

Press the [END] key to return to B01 menu.

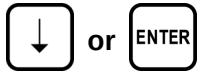


1 LABEL FORMAT [ENTER]
b01 LABEL FORMAT

2.9 B09 SYSTEM

Operation

Press the [↓] key repeatedly until B09 menu appears, or key in “9” and press the [↓] key to enter B09 menu directly.

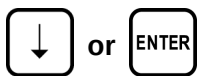


9 SYSTEM	[ENTER]
b09 SYSTEM	

2.9.1 B09-01 PLU REGISTRATION

Operation

1. Press the [↓] or [ENTER] key to enter B09-01 menu.

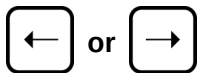


PLU	→ 1:ENABLE
b09-01 PLU	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



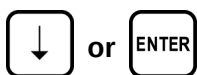
3. Key in the number (0 or 1) to determine whether or not to use the PLU registration function and press the [ENTER] key.



2.9.2 B09-02 COMMODITY NAME REGISTRATION

Operation

1. Press the [↓] or [ENTER] key to enter B09-02 menu.

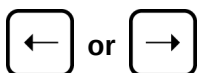


COMMODITY	→ 1:ENABLE
b09-02 COMMODITY	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



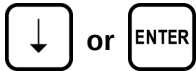
3. Key in the number (0 or 1) to determine whether or not to use the commodity name registration function and press the [ENTER] key.



2.9.3 B09-04 PRESET KEY

Operation

1. Press the [↓] or [ENTER] key to enter B09-04 menu.

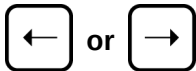


PRESET KEY → 1:ENABLE b09-04 PRESET 1
--

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



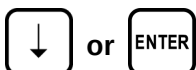
3. Key in the number (0 or 1) to determine whether or not to use the preset key function and press the [ENTER] key.



2.9.4 B09-05 STORE NAME & ADDRESS

Operation

1. Press the [↓] or [ENTER] key to enter B09-05 menu.

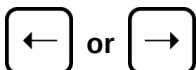


STORE ADDR. → 1:ENABLE b09-05 STORE 1
--

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



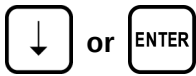
3. Key in the number (0 or 1) to determine whether or not to use the store name and address function and press the [ENTER] key.



2.9.5 B09-06 DATE AND TIME

Operation

1. Press the [↓] or [ENTER] key to enter B09-06 menu.

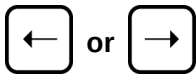


DATE	→ 1:ENABLE
b09-06 DATE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



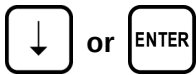
3. Key in the number (0 or 1) to determine whether or not to use the date and time function and press the [ENTER] key.



2.9.6 B09-07 COMMODITY MESSAGE

Operation

1. Press the [↓] or [ENTER] key to enter B09-07 menu.

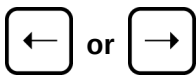


COMMODITY	→ 1:ENABLE
b09-07 COMMODITY MSG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



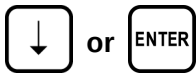
3. Key in the number (0 or 1) to determine whether or not to use the commodity message function and press the [ENTER] key.



2.9.7 B09-08 OPEN PLU

Operation

1. Press the [↓] or [ENTER] key to enter B09-08 menu.

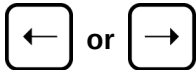


OPEN PLU	→ 1:ENABLE
b09-08 OPEN PLU	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



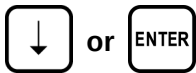
3. Key in the number (0 or 1) to determine whether or not to use the open PLU function and press the [ENTER] key.



2.9.8 B09-09 ITEM LIST

Operation

1. Press the [↓] or [ENTER] key to enter B09-09 menu.

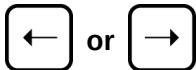


ITEM LIST	→ 1:ENABLE
b09-09 LIST	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

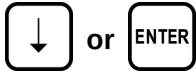


3. Key in the number (0 or 1) to determine whether or not to use the item list function and press the [ENTER] key.



2.9.9 B09-10 RS232C COMMUNICATIONS**Operation**

1. Press the [↓] or [ENTER] key to enter B09-10 menu.

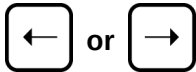


RS232C COMM → 1:ENABLE b09-10 RS232C 1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



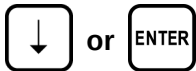
3. Key in the number (0 or 1) to determine whether or not to use the RS232C communication function and press the [ENTER] key.



Note: Steps “b09-11” through “b09-19” are not available.

2.9.10 B09-20 COUPON MESSAGE**Operation**

1. Press the [↓] or [ENTER] key to enter B09-20 menu.

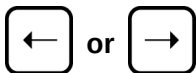


COUPON MSG → 1:ENABLE b09-20 COUPON 1
--

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

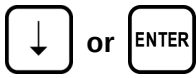


3. Key in the number (0 or 1) to determine whether or not to use the coupon message function and press the [ENTER] key.



2.9.11 B09-21 INGREDIENTS MESSAGE**Operation**

1. Press the [↓] or [ENTER] key to enter B09-21 menu.

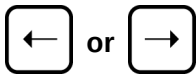


INGRED MSG	→ 1:ENABLE
b09-21 INGRED MSG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

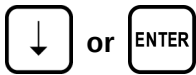
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the ingredients message function and press the [ENTER] key.

**2.9.12 B09-22 NIP MESSAGE****Operation**

1. Press the [↓] or [ENTER] key to enter B09-22 menu.

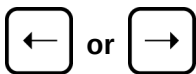


NIP MESSAGE	→ 1:ENABLE
b09-22 NIP MESSAGE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

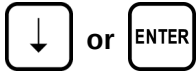


3. Key in the number (0 or 1) to determine whether or not to use the NIP message function and press the [ENTER] key.



2.9.13 B09-23 TCP/IP COMMUNICATION**Operation**

1. Press the [↓] or [ENTER] key to enter B09-23 menu.

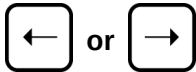


TCP/IP COMM	→ 1:ENABLE
b09-23 TCP IP	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

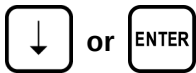
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the TCP/IP communication function and press the [ENTER] key.

**2.9.14 B09-24 OPERATOR SYSTEM****Operation**

1. Press the [↓] or [ENTER] key to enter B09-24 menu.

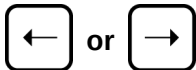


OPERATOR	→ 1:ENABLE
b09-24 OPERATOR	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

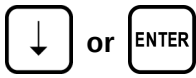


3. Key in the number (0 or 1) to determine whether or not to use the operator system function and press the [ENTER] key.



2.9.15 B09-25 TITLE MESSAGE**Operation**

1. Press the [↓] or [ENTER] key to enter B09-25 menu.

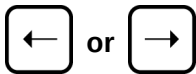


TITLE MSG	→ 1:ENABLE
b09-25 TITLE	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

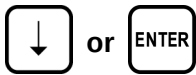
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the title message function and press the [ENTER] key.

**2.9.16 B09-26 ADVERTISEMENT MESSAGE****Operation**

1. Press the [↓] or [ENTER] key to enter B09-26 menu.

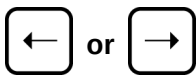


SCROLL MSG	→ 1:ENABLE
b09-26 AD MSG	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

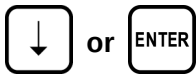


3. Key in the number (0 or 1) to determine whether or not to use the advertisement message function and press the [ENTER] key.



2.9.17 B09-27 DEPARTMENT**Operation**

1. Press the [↓] or [ENTER] key to enter B09-27 menu.

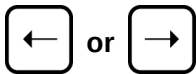


DEPARTEMNT	→ 1:ENABLE
b09-27 DEPARTMENT	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

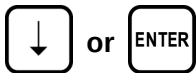
1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the department function and press the [ENTER] key.

**2.9.18 B09-28 GROUP****Operation**

1. Press the [↓] or [ENTER] key to enter B09-28 menu.

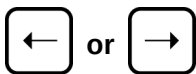


GROUP	→ 1:ENABLE
b09-28 GROUP	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable

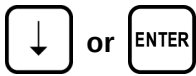


3. Key in the number (0 or 1) to determine whether or not to use the group function and press the [ENTER] key.



2.9.19 B09-29 CAMPAIGN**Operation**

1. Press the [↓] or [ENTER] key to enter B09-28 menu.

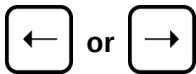


CAMPAIGN	→ 1:ENABLE
b09-29 CAMPAIGN	1

2. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



3. Key in the number (0 or 1) to determine whether or not to use the campaign function and press the [ENTER] key.

**2.9.20 RETURNING TO B01****Operation**

Press the [END] key to return to B01 menu.



1 LABEL FORMAT	[ENTER]
b01 LABEL FORMAT	

2.10 B10 ETHERNET SETTINGS

Operation

Press the [↓] key repeatedly until B10 menu appears, or key in “10” and press the [↓] key to enter B10 menu directly.

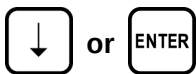


10 ETHERNET	[ENTER]
b10 ETHERNET	

2.10.1 B10-01 IP ADDRESS SETTING

Operation

1. Press the [↓] or [ENTER] key to enter B10-01 menu.



* IP ADDRESS SET	[ENTER]
b10-01 IP ADDRESS	

2.10.1.1 B10-01-01 IP Address 1

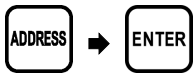
Operation

1. Press the [ENTER] key to enter B10-01-01 menu.



IP ADDRESS 1	
b10-01-01 ADDR 1	194

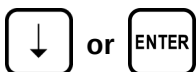
2. Key in the desired address and press the [ENTER] key.



2.10.1.2 B10-01-02 IP Address 2

Operation

1. Press the [↓] or [ENTER] key to enter B10-01-02 menu.



IP ADDRESS 2	
b10-01-02 ADDR 2	39

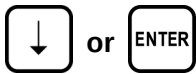
2. Key in the desired address and press the [ENTER] key.



2.10.1.3 B10-01-03 IP Address 3

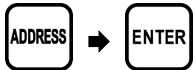
Operation

1. Press the [↓] or [ENTER] key to enter B10-01-03 menu.



IP ADDRESS 3 b10-01-03 ADDR 3	78
--	-----------

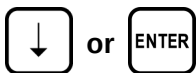
2. Key in the desired address and press the [ENTER] key.



2.10.1.4 B10-01-04 IP Address 4

Operation

1. Press the [↓] or [ENTER] key to enter B10-01-04 menu.



IP ADDRESS 4 b10-01-04 ADDR 4	1
--	----------

2. Key in the desired address and press the [ENTER] key.



2.10.1.5 Returning to B10-01

Operation

Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET [ENTER] b10-01 IP ADDRESS

2.10.2 B10-02 GATEWAY ADDRESS SETTINGS

Operation

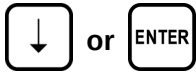
1. Press the [↓] key to enter B10-02.



*GATEWAY ADDRESS [ENTER] b10-02 GATEWAY
--

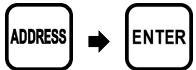
2.10.2.1 B10-02-01 Gateway Address 1**Operation**

1. Press the [↓] or [ENTER] key to enter B10-02-01 menu.

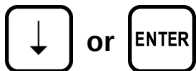


GATEWAY ADDRESS 1 b10-02-01 ADDR 1 255
--

2. Key in the desired address and press the [ENTER] key.

**2.10.2.2 B10-02-02 Gateway Address 2****Operation**

1. Press the [↓] or [ENTER] key to enter B10-02-02 menu.

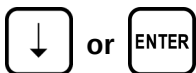


GATEWAY ADDRESS 2 b10-02-02 ADDR 2 255
--

2. Key in the desired address and press the [ENTER] key.

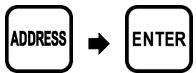
**2.10.2.3 B10-02-03 Gateway Address 3****Operation**

1. Press the [↓] or [ENTER] key to enter B10-02-03.

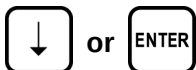


GATEWAY ADDRESS 3 b10-02-03 ADDR 3 255
--

2. Key in the desired address and press the [ENTER] key.

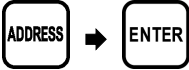
**2.10.2.4 B10-02-04 Gateway Address 4****Operation**

1. Press the [↓] or [ENTER] key to enter B10-02-04.



GATEWAY ADDRESS 4 b10-02-04 ADDR 4 255
--

2. Key in the desired address and press the [ENTER] key.



2.10.2.5 Returning to B10-01

Operation

Press the [END] key to return to B10-01 menu.



*** IP ADDRESS SET [ENTER]**

b10-01 IP ADDRESS

2.10.3 B10-03 SUBNET MASK

Subnet Address is usually fixed as 255.255.255.0.

Operation

Press the [↓] key repeatedly until B10-03 menu appears, or key in “3” and press the [↓] key to enter B10-03 menu directly.



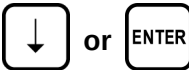
***SUBNET MASK SET [ENTER]**

b10-03 SUBNET

2.10.3.1 B10-03-01 Subnet Mask Address 1

Operation

1. Press the [↓] or [ENTER] key to enter B10-03-01.



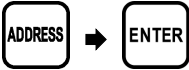
SUBNET MASK 1

b10-03-01 ADDR 1 **255**

SUBNET MASK 1

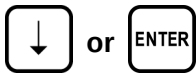
b10-03-01 ADDR 1 **255**

2. Key in the desired address and press the [ENTER] key.



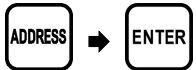
2.10.3.2 B10-03-01 Subnet Mask Address 2**Operation**

1. Press the [↓] or [ENTER] key to enter B10-03-02.

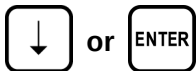


SUBNET MASK 2
b10-03-02 ADDR 2 255

2. Key in the desired address and press the [ENTER] key.

**2.10.3.3 B10-03-01 Subnet Mask Address 3****Operation**

1. Press the [↓] or [ENTER] key to enter B10-03-03.

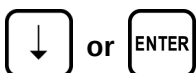


SUBNET MASK 3
b10-03-03 ADDR 3 255

2. Key in the desired address and press the [ENTER] key.

**2.10.3.4 B10-03-01 Subnet Mask Address 4****Operation**

1. Press the [↓] or [ENTER] key to enter B10-03-04.



SUBNET MASK 4
b10-03-04 ADDR 4 0

2. Key in the desired address and press the [ENTER] key.

**2.10.3.5 Returning to B10-01****Operation**

Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET [ENTER]
b10-01 IP ADDRESS

2.10.4 B10-04 SERVER ADDRESS

Operation

Press the [↓] key repeatedly until B10-04 menu appears, or key in “4” and press the [↓] key to enter B10-04 menu directly.

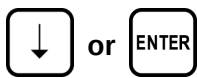


***SERVER ADDRESS [ENTER]**
b10-04 SERVER

2.10.4.1 B10-04-01 Server Address 1

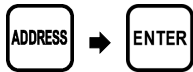
Operation

1. Press the [↓] or [ENTER] key to enter B10-04-01.



SERVER ADDRESS 1
b10-04-01 ADDR 1 **255**

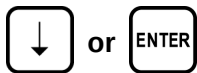
2. Key in the desired address and press the [ENTER] key.



2.10.4.2 B10-04-01 Server Address 2

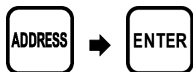
Operation

1. Press the [↓] or [ENTER] key to enter B10-04-02.



SERVER ADDRESS 2
b10-04-02 ADDR 2 **255**

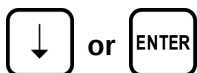
2. Key in the desired address and press the [ENTER] key.



2.10.4.3 B10-04-01 Server Address 3

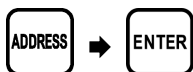
Operation

1. Press the [↓] or [ENTER] key to enter B10-04-03.



SERVER ADDRESS 3
b10-04-03 ADDR 3 **255**

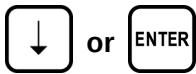
2. Key in the desired address and press the [ENTER] key.



2.10.4.4 B10-04-01 Server Address 4

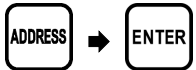
Operation

1. Press the [↓] or [ENTER] key to enter B10-04-04.



SERVER ADDRESS 4 b10-04-04 ADDR 4 255
--

2. Key in the desired address and press the [ENTER] key.



3. Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET [ENTER] b10-01 IP ADDRESS

2.10.5 B10-05 LOGIN NAME REGISTRATION

Operation

1. Press the [↓] key repeatedly until B10-05 menu appears, or key in "5" and press the [↓] key to enter B10-05 menu directly.



* LOGIN NAME SET [ENTER] b10-05 LOGIN
--

2. Press the [ENTER] key to enter text editing screen.



LOGIN NAME TEST

3. Key in alpha-numeric characters using the keyboard and press the [ENTER] key.



LOGIN NAME ISHIDA

4. Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET [ENTER] b10-01 IP ADDRESS

2.10.6 B10-06 PASSWORD REGISTRATION FOR FTP COMMUNICATION

Operation

1. Press the [↓] key repeatedly until B10-06 menu appears, or key in “6” and press the [↓] key to enter B10-06 menu directly.



*** PASSWORD SETUP [ENTER]
b10-06 PASSWORD**

2. Press the [ENTER] key to enter text editing screen.



**PASSWORD
USNET**

3. Key in alpha-numeric characters using the keyboard and press the [ENTER] key.



**PASSWORD
KYOTO**

4. Press the [END] key to return to B10-01 menu.



*** IP ADDRESS SET [ENTER]
b10-01 IP ADDRESS**

2.10.7 B10-07 MAC ADDRESS

Operation

1. Press the [↓] key repeatedly until B10-07 menu appears, or key in “7” and press the [↓] key to enter B10-07 menu directly.

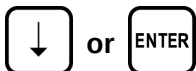


***MAC ADDRESS SET [ENTER]
b10-07 MAC**

2.10.7.1 B10-07-01 MAC Address 1

Operation

1. Press the [↓] or [ENTER] key to enter B10-07-01.



**MAC ADDRESS 1 (0030)
b10-07-01 ADDR 1**

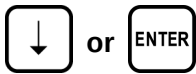
Note: Basically, MAC Address cannot be changed. When changing the address, key in the password “495344” and press the [SIZE] key to proceed further step.

2. Key in the desired address and press the [ENTER] key.



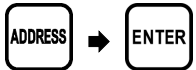
2.10.7.2 B10-07-02 MAC Address 2**Operation**

1. Press the [↓] or [ENTER] key to enter B10-07-02.

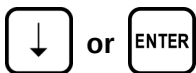


MAC ADDRESS 2	(1604)
b10-07-02 ADDR 2	

2. Key in the desired address and press the [ENTER] key.

**2.10.7.3 B10-07-03 MAC Address 3****Operation**

1. Press the [↓] or [ENTER] key to enter B10-07-03.



MAC ADDRESS 3	(0017)
b10-07-03 ADDR 3	

2. Key in the desired address and press the [ENTER] key.



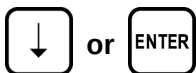
3. Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET	[ENTER]
b10-01 IP ADDRESS	

2.10.8 B10-08 DHCP COMMUNICATION SETUP**Operation**

1. Press the [↓] key repeatedly until B10-08 menu appears, or key in "8" and press the [↓] key to enter B10-08 menu directly.



* DHCP SETUP	[ENTER]
b10-08 DHCP	

2. Press the [ENTER] key to enter B10-08-01 menu.

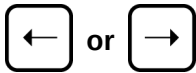


DHCP	→ 1:ENABLE
b10-08-01 DHCP	1

3. Use the [←] or [→] key to confirm the meaning of each item (code).

0: Disable

1: Enable



4. Key in the desired number (0 or 1) to determine whether or not to use the DHCP communication method and press the [ENTER] key.



5. Press the [END] key to return to B10-01 menu.



*** IP ADDRESS SET [ENTER]**
b10-01 IP ADDRESS

2.10.9 B10-09 NETWORK STATUS

Each setting related to network can be confirmed.

Operation

1. Press the [↓] key repeatedly until B10-09 menu appears, or key in "9" and press the [↓] key to enter B10-09 menu directly.



*** NETWORK STATUS [ENTER]**
b10-09 STATUS

2.10.9.1 B10-09-01 DHCP Status Confirmation

Operation

Press the [ENTER] key to enter B10-09-01 menu to confirm DHCP status.

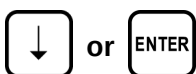


DHCP STATUS
b10-09-01 DHCP **0**

2.10.9.2 B10-09-02 IP Address Confirmation

Operation

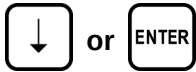
Press the [↓] or [ENTER] key to enter B10-09-02 menu to confirm IP address.



IP ADDR.
b10-09-02 **194.039.078.001**

2.10.9.3 B10-09-03 MAC Address Confirmation**Operation**

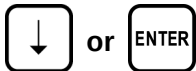
Press the [↓] or [ENTER] key to enter B10-09-03 menu to confirm MAC address.



MAC ADDR.
b10-09-03 003016-040017

2.10.9.4 B10-09-04 Subnet Mask Confirmation**Operation**

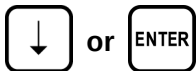
Press the [↓] or [ENTER] key to enter B10-09-04 menu to confirm Subnet Mask.



SUBNET MASK
b10-09-04 S255.255.255.000

2.10.9.5 B10-09-05 Gateway Address Confirmation**Operation**

Press the [↓] or [ENTER] key to enter B10-09-05 menu to confirm Gateway address.



GATEWAY ADDR.
b10-09-05 G255.255.255.255

2.10.9.6 Returning to B10-01**Operation**

Press the [END] key to return to B10-01 menu.



* IP ADDRESS SET [ENTER]
b10-01 IP ADDRESS

2.10.9.7 Returning to B01**Operation**

Press the [END] key again to return to B01 menu.



1 LABEL FORMAT [ENTER]
b01 LABEL FORMAT

2.11 B11 SYSTEM TIMER

Time until returning to the initial screen since the last PLU was called can be set.

Setting range: 10 – 1,000 seconds (default value: 60 seconds)

Operation

1. Press the [↓] key repeatedly until B11 menu appears, or key in “11” and press the [↓] key to enter B11 menu directly.



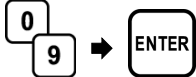
11	SYSTEM TIMER	[ENTER]
b11	SYSTEM TIMER	

2. Press the [ENTER] key to enter B11-01 menu.



SYSTEM TIMER (10-1000sec)
b11-01 TIMER 60

3. Key in the desired time (seconds) and press the [ENTER] key.



4. Press the [END] key to return to B01 menu.



1	LABEL FORMAT	[ENTER]
b01	LABEL FORMAT	

2.12 B12 PASSWORD REGISTRATION

Operation

1. Press the [↓] key repeatedly until B12 menu appears, or key in “12” and press the [↓] key to enter B12 menu directly.



12 PASSWORD	[ENTER]
b12 PASSWORD	

2. Press the [ENTER] key to enter B12-00 menu.



PASSWORD SETUP (- - - -)
b12-00

2.12.1 B12-01 PASSWORD FOR REGISTRATION MODE

Operation

1. Key in “495344” and press the [ENTER] key to enter B12-01 menu.



REGISTRATION (- - - -)
b12-01 REGISTRATION

2. Key in a password (4 digits) for entering Registration Mode and press the [ENTER] key.

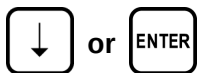
Note: Default value is “9000”



2.12.2 B12-02 PASSWORD FOR TOTAL MODE

Operation

1. Press the [↓] or [ENTER] key to enter B12-02 menu.



TOTAL (- - - -)
b12-02 TOTAL

2. Key in a password (4 digits) for entering Total Mode and press the [ENTER] key.

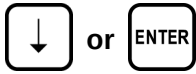
Note: Default value is “8000”



2.12.3 B12-03 PASSWORD FOR SUBTRACTION MODE

Operation

1. Press the [↓] or [ENTER] key to enter B12-03 menu.



SUBTRACT (- - - -)
b12-03 SUBTRACTION

2. Key in a password (4 digits) for entering Subtraction Mode and press the [ENTER] key.

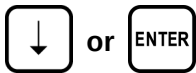
Note: Default value is "7000"



2.12.4 B12-04 PASSWORD FOR SETUP MODE

Operation

1. Press the [↓] or [ENTER] key to enter B12-04 menu.



SETUP (- - - -)
b12-04 SETUP

2. Key in a password (4 digits) for entering Setup Mode and press the [ENTER] key.

Note: Default value is "6000"

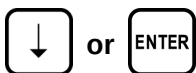


2.12.5 B12-06 PASSWORD CHANGE

This procedure is to change the password by which password change mode can be accessed.

Operation

1. Press the [↓] or [ENTER] key to enter B12-06 menu.



PASSWORD CHANGE(- - - - -)
b12-06

2. Key in a password (6 digits) for proceeding further steps and press the [ENTER] key.

Note: Default value is "495344"



2.12.6 RETURNING TO B01

Operation

Press the [END] key to return to B01 menu.



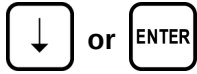
1 LABEL FORMAT [ENTER]

b01 LABEL FORMAT

2.13 B13 MACHINE NUMBER

Operation

1. Press the [↓] key repeatedly until B13 menu appears, or key in “13” and press the [↓] key to enter B13 menu directly.



13 MACHINE NUM. [ENTER]
b13 MACHINE NUMBER

2. Press the [ENTER] key to enter B13-01.



MACHINE NUMBER(IP ADDR)
b13-01 NUMBER 0

3. Key in the desired machine number for communications and press the [ENTER] key.



Note: Usually, the last digit of IP address is set as the machine number to avoid double registration.

4. Press the [END] key to return to B01 menu.



1 LABEL FORMAT [ENTER]
b01 LABEL FORMAT

2.14 EXITING THE MODE

Operation

Press the [MODE] key to exit the current mode.



KEY	IN	ITEM	No.
0.000	0.000	0.00	0.00

3. TEST MODE (C Mode)

3.1 ENTERING TEST MODE

When the power is turned ON,

KEY	IN	ITEM	No.
0.000	0.000	0.00	0.00

Press the [RESET] key to reset the machine,



Keep pressing any key other than the [RESET] key for a while until C00 menu appears on the display.



Keep pressing any key
other than RESET.

*TEST MODE PRESS [↓] KEY C00

When the power is turned OFF,



Turn ON the power, and immediately press and keep pressing any key other than the [RESET] key for a while until C00 menu appears on the display.



Keep pressing any key
other than RESET.

*TEST MODE PRESS [↓] KEY C00

Note: It will take approximately 30 seconds to enter test mode.

3.2 C01 HARDWARE TEST

Operation

Press the [↓] key to enter C01 menu.



**1 HARDWARE TEST [ENTER]
C01**

3.2.1 C01-01 A/D Check

Operation

Press the [ENTER] key to enter C01-01 menu.



**1. A/D CHECK [ENTER]
C01-01**

3.2.1.1 C01-01-00 Zero Point & Span Adjustment

Operation

1. Press the [ENTER] key to enter C01-01-00 menu. The original A/D data appears.



**ZERO=[ZERO]:SPAN=[TARE]
C01-01-00 20008 20008**

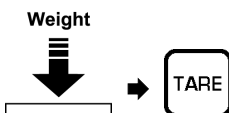
2. Press the [ZERO] key to make the A/D initial value "20000".

Note: "2000" is a data output from the A/D board, and "0" denotes that "2000" are regarded as zero point.



**ZERO=[ZERO]:SPAN=[TARE]
C01-01-00 20000 0**

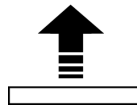
3. After a zero point adjustment, place the same weight as the maximum weighing capacity on the weigh platter and press the [TARE] key to execute the span adjustment automatically.



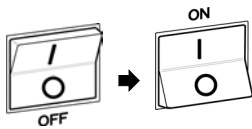
**ZERO=[ZERO]:SPAN=[TARE]
C01-01-00 95000 75000**

4. Remove the weight from the weigh platter and press the Memory Switch to store the data in E2ROM.

Weight



5. Turn OFF and ON the power to restart the machine.



3.2.1.2 Returning to C01-01

Operation

Press the [END] key to return to C01-01 menu.



1. A/D CHECK [ENTER]
C01-01

3.2.2 C01-02 Key Check

Operation

Press the [↓] key to enter C01-02 menu.



2. KEY CHECK [ENTER]
C01-02

3.2.2.1 C01-02-00 Key Check

Operation

1. Press the [ENTER] key to enter C01-02-00 menu.



* KEY CHECK	KEY DATA
C01-02-00	

2. Press each key to check its function.
The corresponding key number appears on the screen.

<Key Number Table>

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26		28
29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100	101	102	103	104	105	106	107	108	109	110	111	112

3.2.2.2 Returning to C01-01

Operation

- Press the [RESET] key to exit the key check menu and return to C01-01 menu.



1. A/D CHECK	[ENTER]
C01-01	

3.2.3 C01-03 Display Check

Operation

1. Press the [↓] key repeatedly until C01-03 menu appears.



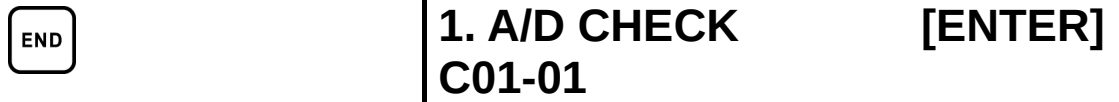
3. DISPLAY CHECK	[ENTER]
C01-03	

2. Press the [ENTER] key to execute the display check.



- Press the [END] key to finish the display check.

The screen will return to C01-01 menu.

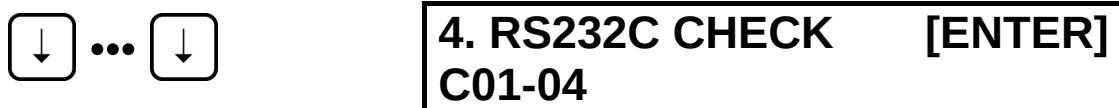


3.2.4 C01-04 RS232C Check

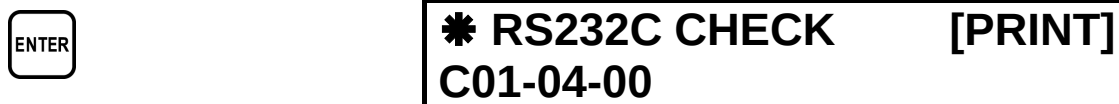
A loop back test can be performed to carry out the RS232C input test. Engage the TXD and RXD short-circuited connector with D-SUB 9.

Operation

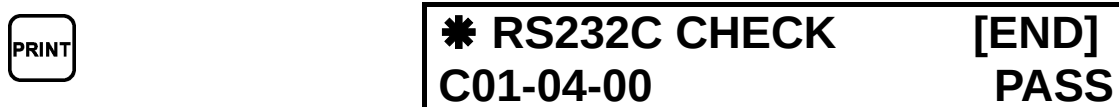
- Press the [↓] key repeatedly until C01-04 menu appears.



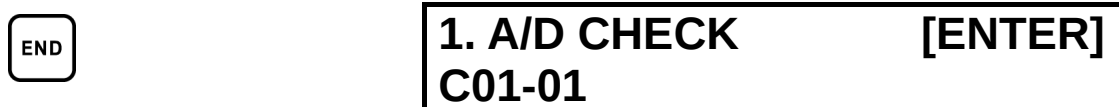
- Press the [ENTER] key to enter C01-04-00 menu.



- Press the [PRINT] key to output test data and judge by verifying received test data and sent data. When the data matches, "PASS" is displayed and "OK" buzzer sounds.



- To finish the check, press the [END] key. The screen will return to C01-01 menu.



3.2.5 C01-05 Application Program Number

Operation

Press the [↓] key repeatedly until C01-05 menu appears.



3.2.5.1 C01-05-00 Apply Number

Operation

Press the [ENTER] key to enter C01-05-00 menu.

The program number and version of the main program are displayed.

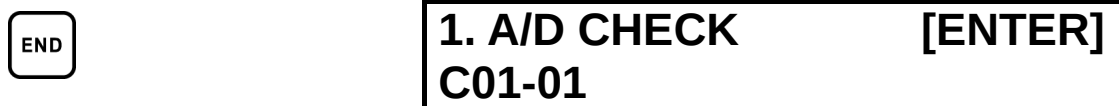
Note: The program number for the prototype is the development code "APLY".



3.2.5.2 Returning to C01-01

Operation

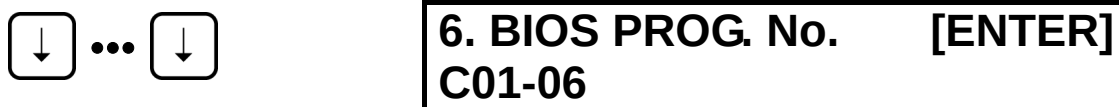
Press the [END] key to return to C01-01 menu.



3.2.6 C01-06 BIOS Program Number

Operation

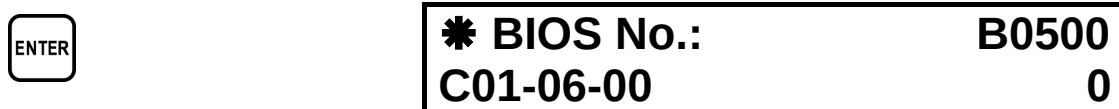
Press the [↓] key repeatedly until C01-06 menu appears.



3.2.6.1 C01-06-00 Program Number & Version Display

Operation

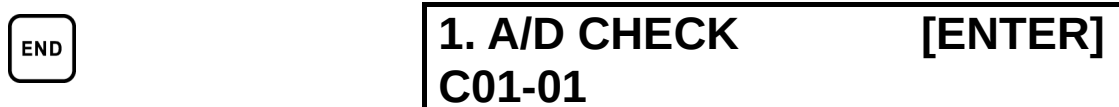
Press the [ENTER] key to enter C01-06-00 menu. Program number and version of the BIOS program are displayed.



3.2.6.2 Returning to C01-01

Operation

Press the [END] key to return to C01-01 menu.



3.2.7 C01-07 Reset Count

The number of automatic reset counts is recorded in case of Error “40” occurrence.

Before resetting the number in case particular problems occur, ensure to confirm the record.

Operation

Press the [↓] key repeatedly until C01-07 menu appears.



7. RESET COUNT C01-07	[ENTER]
--	----------------

3.2.7.1 C01-07-00 Number of Reset Times

Operation

1. Press the [ENTER] key to enter C01-07-00 menu.

The number of reset times is displayed.



CLEAR? YES = (ZERO+ZERO) C01-07-00	0000
---	-------------

2. To clear the record, press the [ZERO] key twice.

Otherwise, press the [END] key. The screen will return to C01-01 menu.



3.2.7.2 Returning to C01

Operation

Press the [END] key to return to C01-01 menu.



1. A/D CHECK C01-01	[ENTER]
--------------------------------------	----------------

3.3 C02 RAM CLEAR

Operation

Press the [↓] key repeatedly until C02 menu appears.



2 RAM CLEAR	[ENTER]
C02	

3.3.1 C02-01 SRAM Clear

Operation

1. Press the [ENTER] key to enter C02-01 menu.



* SRAM CLEAR	[]
C02-01	

2. Press the [ZERO] key twice to clear SRAM data.

“PASS” is displayed and “OK” buzzer sounds when data clear is completed.



* SRAM CLEAR	[OK]
C02-01	PASS

3.3.2 C02-02 Set Data Clear

Operation

1. Press the [ENTER] key to enter C02-02 menu.



* SETUP CLEAR	[]
C02-02	

2. Press the [ZERO] key twice to clear the set data.

“PASS” is displayed and “OK” buzzer sounds when data clear is completed.



* SETUP CLEAR	[OK]
C02-02	PASS

3.3.3 C02-03 Test Data Clear

Operation

1. Press the [ENTER] key to enter C02-03 menu.



* TEST DATA SET	[]
C02-03	

2. Press the [ZERO] key twice to clear the test data.

"PASS" is displayed and "OK" buzzer sounds when data clear is completed.



* TEST DATA SET	[OK]
C02-03	PASS

3.3.4 Returning to C01

Operation

Press the [END] key to return to C01 menu.



1 HARDWARE TEST	[ENTER]
C01	

3.4 C03 THERMAL HEAD

Operation

Press the [↓] key repeatedly until C03 menu appears, or key in “3” and press the [↓] key to enter C03 menu directly.



3 PRINT HEAD [ENTER]
C03

3.4.1 C03-01 Thermal Head Resistance

Operation

1. Press the [ENTER] key to enter C03-01 menu.

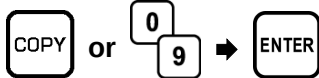
The thermal head resistance can be set.

Note: The resistance must be set after the thermal head is replaced.



*** RESISTANCE (960)**
C03-01

2. Press the [COPY] key to read the ID from the thermal head and set it automatically, or key in the resistance described on the head and press the [ENTER] key to save it in E2ROM.



3.4.2 C03-02 Print Usage Distance

Operation

1. Press the [↓] key to enter C03-02 menu.

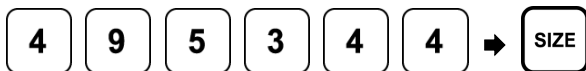
Total print distance of the thermal head can be confirmed.

It is displayed in 100m (0.1Km) units and stored.



*** PRINT USAGE (0.0 km)**
C03-02

2. To reset the distance, key in the password “495344” and press the [SIZE] key.



3. Key in the desired usage distance and press the [ENTER] key.



3.4.3 C03-03 Resistance Value Adjustment

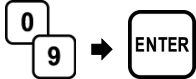
Operation

1. Press the [↓] key to enter C03-03 menu. The thermal head print density can be adjusted.



*** RESIST. VALUE *ADJ (5)**
C03-03

2. Key in the desired level (1 – 9) and press the [ENTER] key.
Density range: 1 (thinnest) through 9 (thickest) Default value: 5



3.4.4 Returning to C01

Operation

Press the [END] key to return to C01 menu.



1 HARDWARE TEST [ENTER]
C01

3.5 C04 LABEL SENSOR CHECK

Operation

Press the [↓] key repeatedly until C04 menu appears, or key in “4” and press the [↓] key to enter C04 menu directly.



4 LABEL SENS. CHK [ENTER]
C04

3.5.1 C04-00 Label Sensor

Operation

1. Press the [ENTER] key to enter C04-00 menu.



*** LABEL SENSOR**
C04-00

Resistance: **32**
Output value (with label): **24**

2. Key in the label sensor resistance value (0 and 255) and press the [ENTER] key.

The difference between the label sensor output value when a label is detected and when a label is not detected must be 50 or greater.

Adjustment target value of the label sensor is as follows:

- When a label is not detected: 150 ± 10
- When a label is detected: 50 ± 10 or less



*** LABEL SENSOR**
C04-00

Resistance: **32**
Output value (without label): **228**

3.5.2 Returning to C01

Operation

Press the [END] key to return to C01 menu.



1 HARDWARE TEST [ENTER]
C01

3.6 C05 TOTAL MEMORY

Operation

Press the [↓] key repeatedly until C05 menu appears, or key in “5” and press the [↓] key to enter C05 menu directly.



5 TOTAL MEMORY	[ENTER]
C05	

3.6.1 C05-00 Total Memory & Remaining Memory

Operation

Press the [ENTER] key to enter C05-00. Total memory capacity and remaining memory capacity are shown on the screen.



* MEM 878[KB]	REM 845[KB]
C05-00	

3.6.2 Returning to C01

Operation

Press the [END] key to return to C01 menu.



1 HARDWARE TEST	[ENTER]
C01	

3.7 C06 ROM SWITCH

Operation

Press the [↓] key repeatedly until C06 menu appears, or key in “6” and press the [↓] key to enter C06 menu directly.



6 ROM SWITCH [ENTER]
C06

3.7.1 C06-00 ROM Switch Selection

Operation

1. Press the [ENTER] key to enter C06-00.

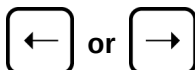


***ROM SWITCH No. SEL. [→←]**
C06-00

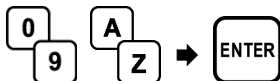
E2ROM
address

E2ROM
address data

2. Use the [←] or [→] key to select ROM switch (E2ROM address).



3. To change data, key in a hexadecimal value (0-9, A-F) and press the [ENTER] key.



Details of ROM Switch

Address	Content	Default
0	Number of weight display digits	04
1	Number of price display digits	03
2	Number of unit price display digits	03
3	DC motor	2B
4	Fixed price product count addition (0: Price, 1: Number)	00
5	Weighing unit	00
6	Price calculation rounding (0: 4/5, 1: 0/5)	00
7	Relish period calculation of days (0: That day, 1: Next day)	00
8	Time rounding	00
9	Sub-total label commodity name mode	00
10	RESET key (0: Use, 1: Prohibit)	00
11	Auto clear after total data sending (0: Off, 1: On)	00
12	Expiry date printing	00
13	Print cash drawer (0: Off, 1: On)	00
14	Weighing mode (0: 15Kg, 1: 30lb)	00
15	Price calculation	00

	0: Round down after decimal point 1: Round off at the 3rd digit after decimal point 2: Round down at the 2nd digit after decimal point 3: Round off at the 2nd digit after decimal point	
16	ITF barcode digit check calculation method 0: Odd number digits $\times 3$ 1: Even number digits $\times 3$	00
25	LCD backlight color (0: Green, 1: Orange)	00
26	ITF bar code length ratio (0: 4:2, 1=5:2)	00

Note: Two-color printing is not available.

3.7.2 Returning to C01

Operation

Press the [END] key to return to C01 menu.



**1 HARDWARE TEST [ENTER]
C01**

3.8 C07 PEEL SENSOR CHECK

Operation

Press the [↓] key repeatedly until C07 menu appears, or key in “7” and press the [↓] key to enter C07 menu directly.



**7 PEEL SENS. CHK. [ENTER]
C07**

3.8.1 C07-00 Peel Sensor

Operation

1. Press the [ENTER] key to enter C07-00.



*** PEEL SENSOR 255 1
C07-00**

Resistance

Output value (without label)

2. Key in the resistance value (0-255) and press the [ENTER] key.



*** PEEL SENSOR 255 186
C07-00**

Output value (with label)

3.8.2 Returning to C01

Operation

Press the [END] key to return to C01 menu.

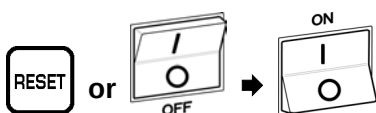


**1 HARDWARE TEST [ENTER]
C01**

3.8.3 Exiting the Mode

Operation

Press the [RESET] key or turn ON and OFF the power to exit Test Mode.



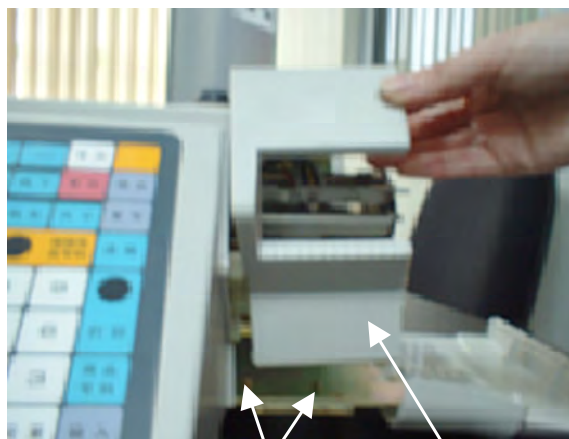
KEY IN ITEM No.

0.000 0.000 0.0 0.00

4. COMPONENT REPLACEMENT

4.1 THERMAL HEAD REPLACEMENT

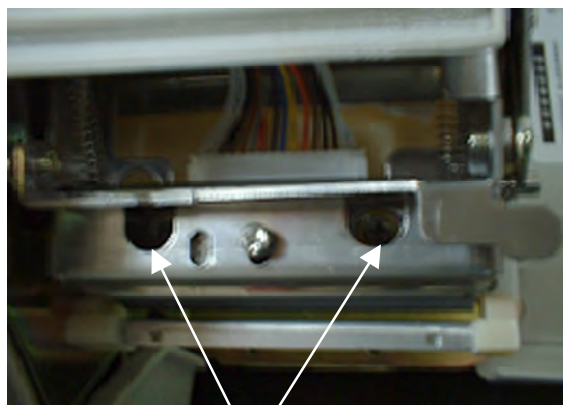
1. Dismount the front cover of the printer unit by removing the 2 fixing screws.



Screws

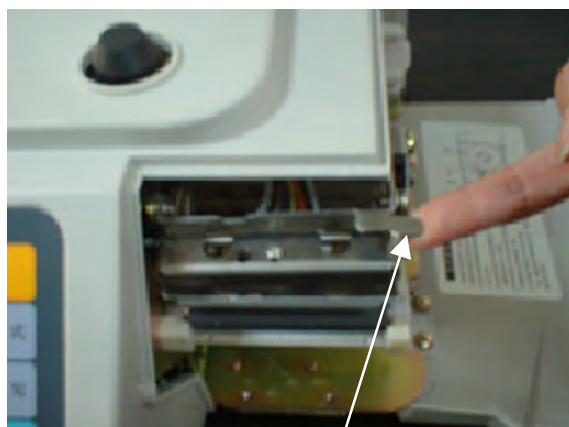
Front cover

2. Remove the 2 screws fixing the thermal head.



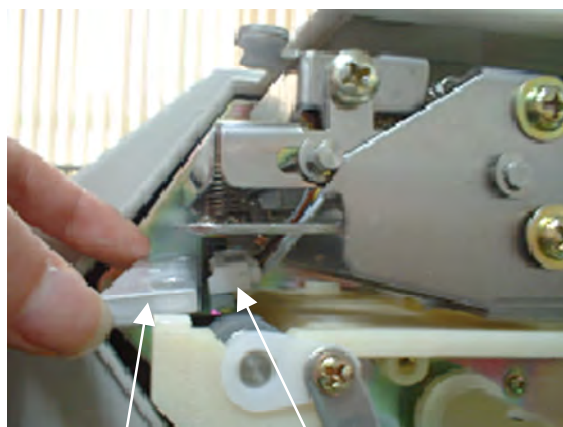
Screws

3. Raise the thermal head lever.



Lever

4. Dismount the thermal head and remove the communication harness connecting with the head.



Thermal head

Communication harness

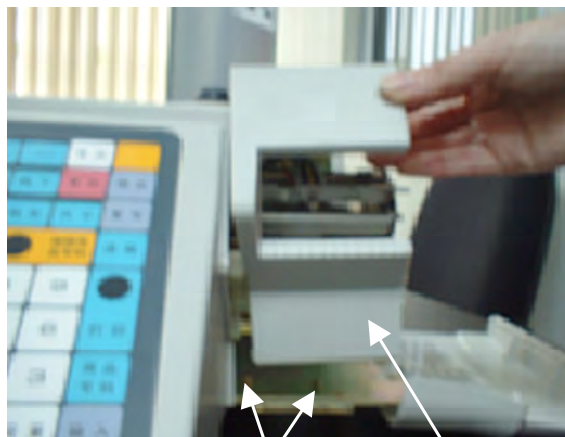
Note: If the print is so light, adjust the print darkness by moving the thermal head position back and forth and around as per step 2 above.

4.2 PRINT ROLLER REPLACEMENT

1. Remove the weigh platter.

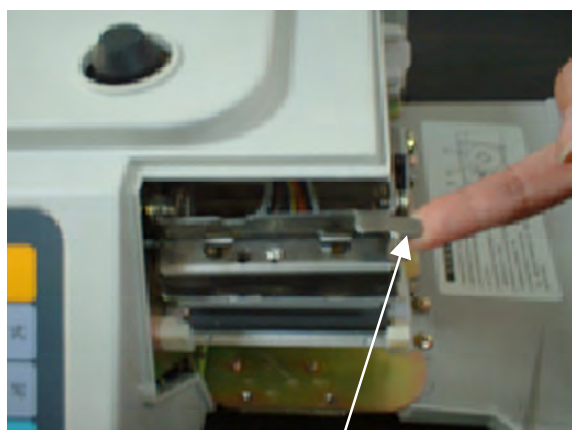


2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



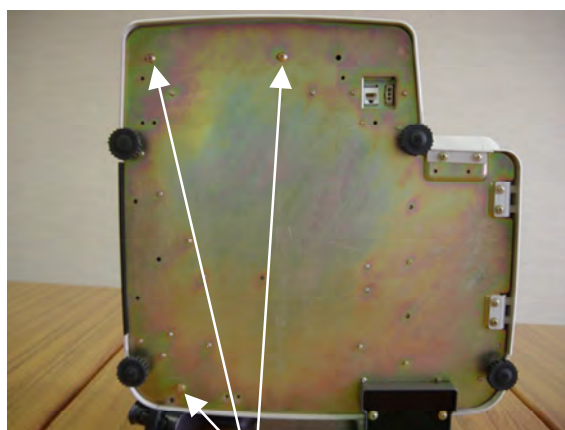
Screws Front cover

3. Raise the thermal head lever.



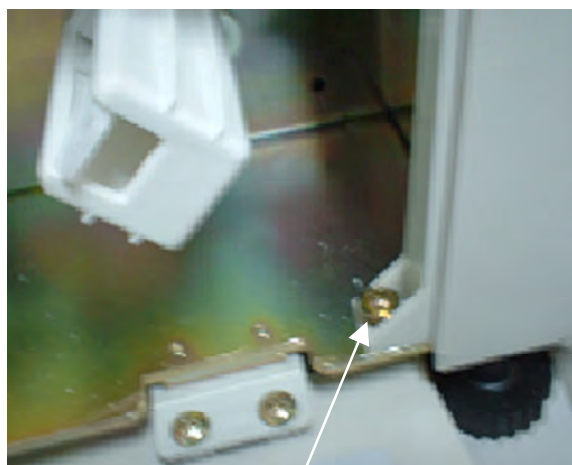
Lever

4. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



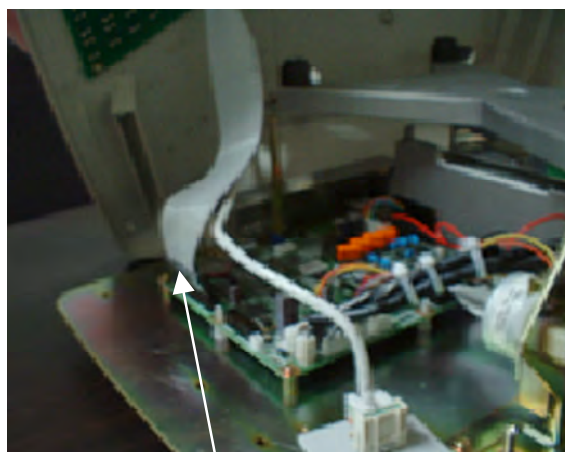
Screws

5. Remove the screw fixing the top cover of the printer unit.



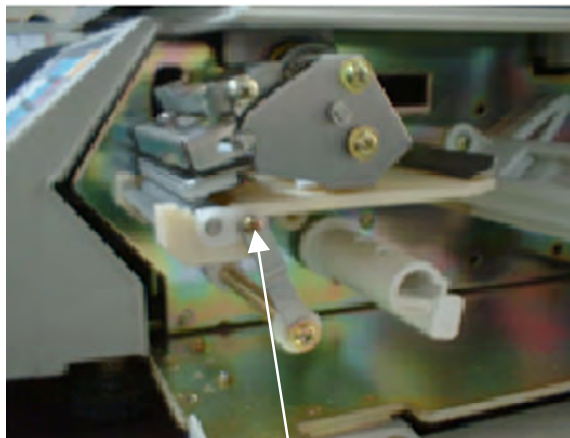
Screw

6. Detach the top cover 6 and the above cover, and remove the communication cable connecting with the keyboard.



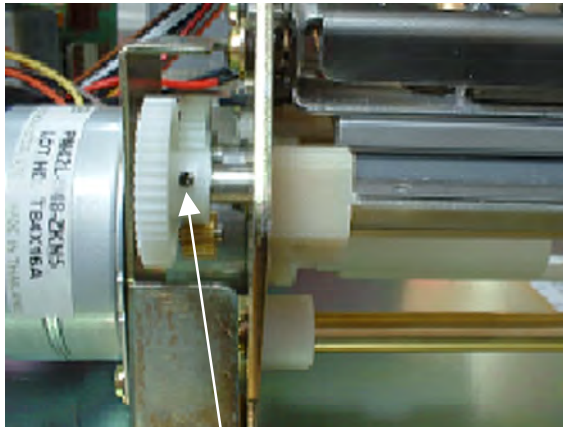
Keyboard communication cable

7. Remove the screw fixing the roller bracket.



Screw for roller bracket

8. Remove the gear after pulling out the gear stopper, and remove the print roller.



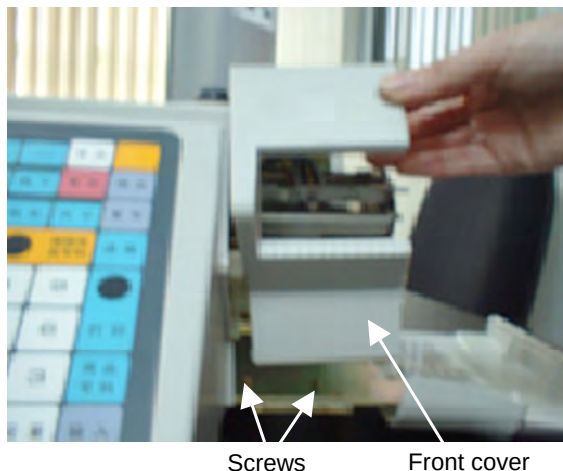
Gear stopper

4.3 LOAD CELL REPLACEMENT

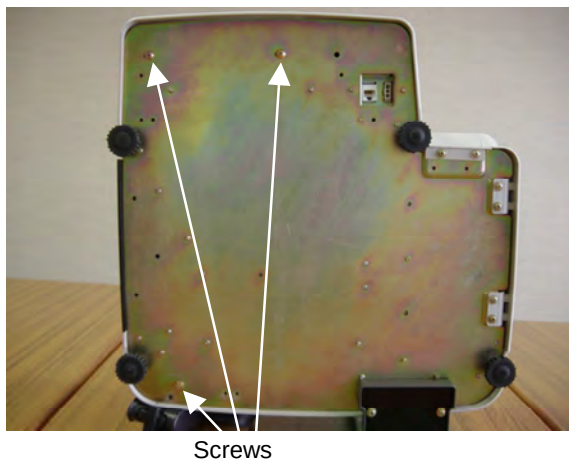
1. Remove the weigh platter.



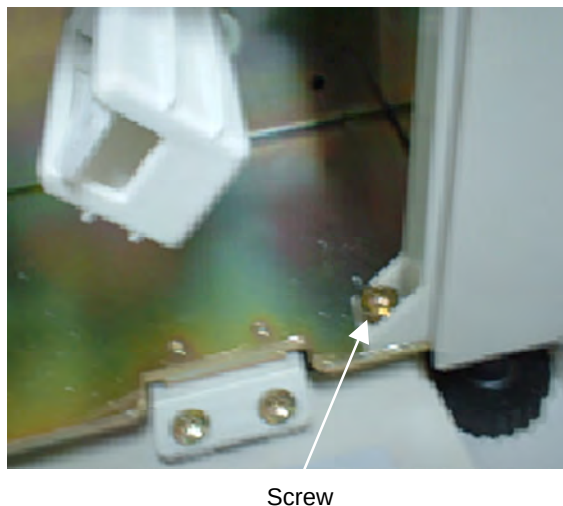
2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



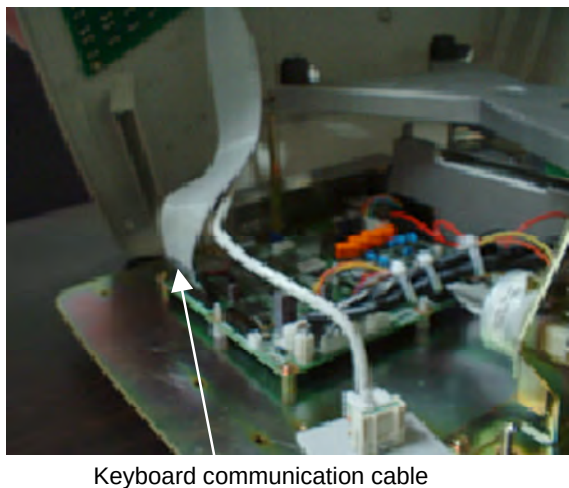
3. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



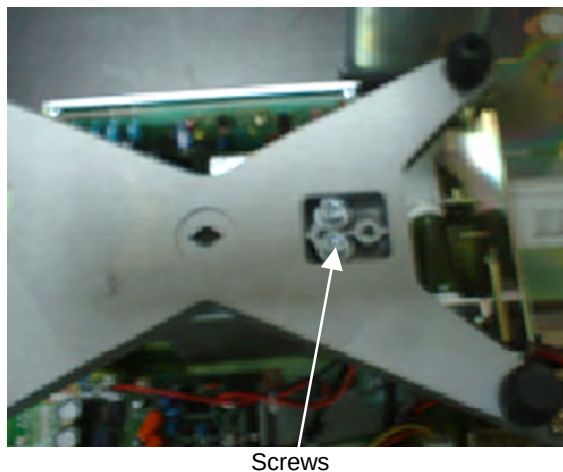
4. Remove the screw fixing the top cover of the printer unit.



5. Detach the top cover, and remove the communication cable connecting with the keyboard.



6. Remove the 2 screws fixing the weigh platter.

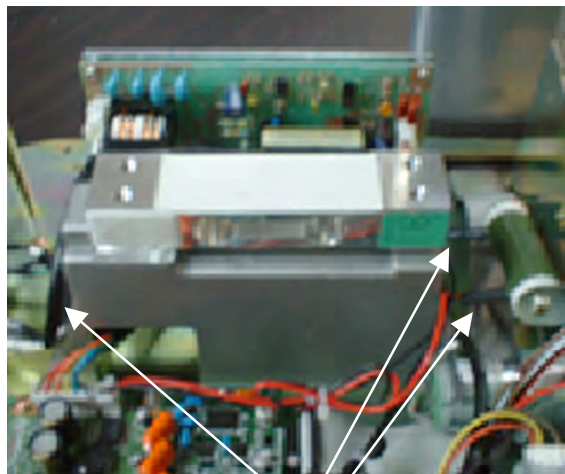


7. Remove the load cell communication harness on the A/D board using a soldering tool.



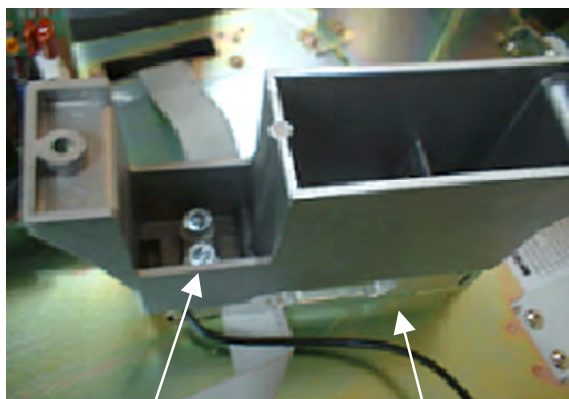
Load cell communication harness

8. Remove the 3 screws fixing load cell base.



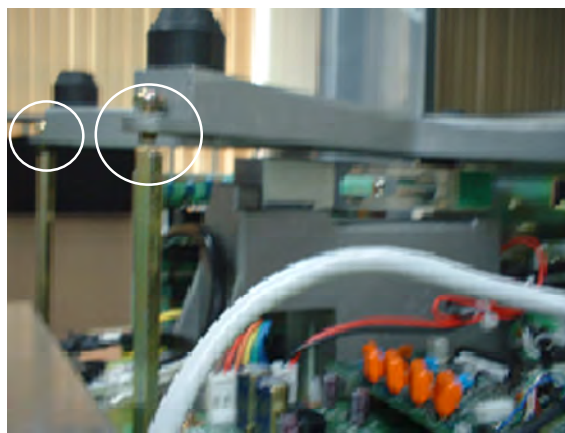
Screws

9. Detach the load cell by removing the 2 screws.



Screws

Load cell



Limit stopper

Explanation

When replacing with a new load cell, always adjust the 4 limit stopper screws on the weigh platter holder.

Adjustment target: There is no gap between the stopper screw and the pole when the 1.5 times weight of the weighing capacity is placed on the platter.

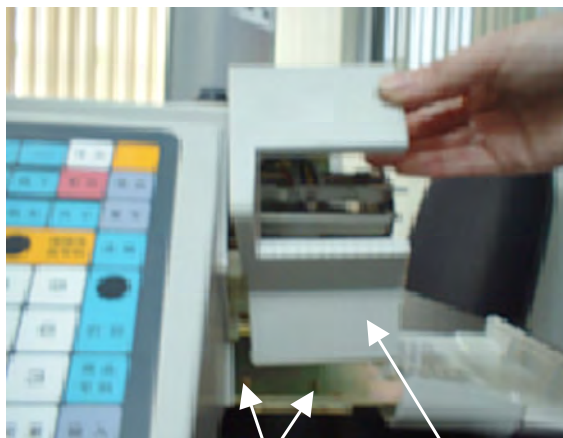
After the load cell has been replaced, perform the span adjustment.

4.4 MAIN BOARD REPLACEMENT

1. Remove the weigh platter.

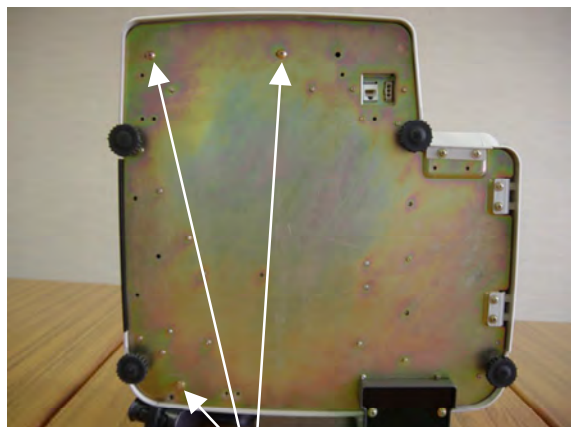


2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



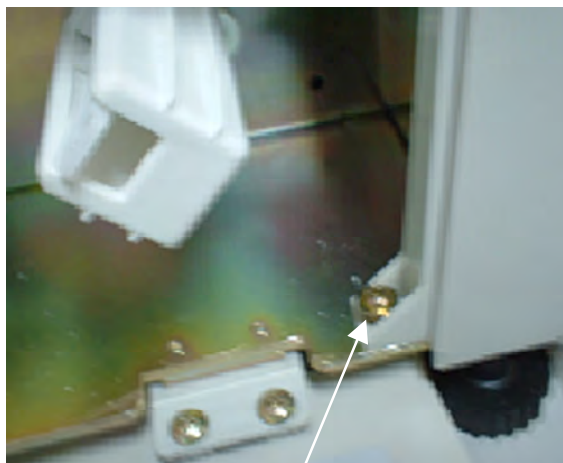
Screws Front cover

3. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



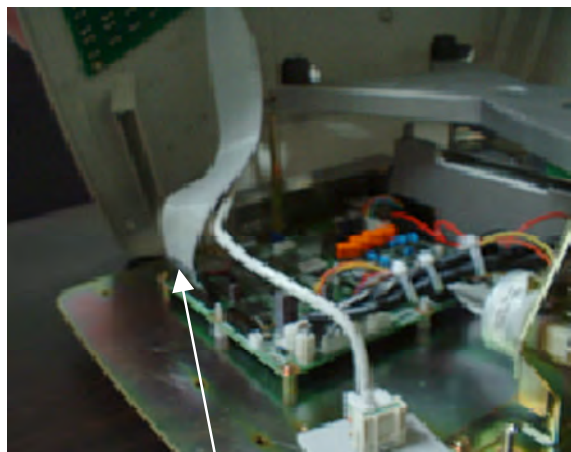
Screws

4. Remove the screw fixing the top cover of the printer unit.



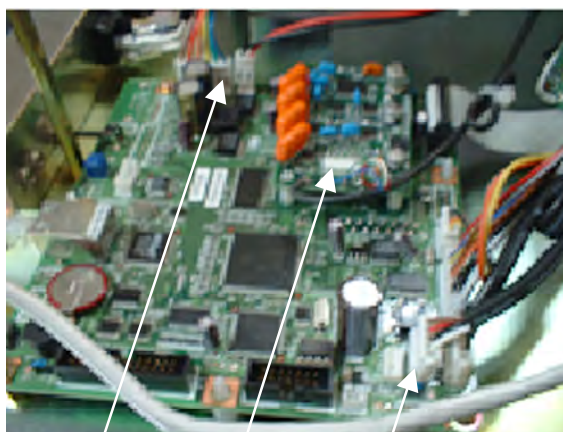
Screw

5. Detach the top cover, and disconnect the keyboard communication cable.



Keyboard communication cable

6. Disconnect all harnesses connecting with the main board, and dismount the A/D board.



Connectors A/D board Connector

7. Dismount the main board by removing the 3 screws fixing the board.



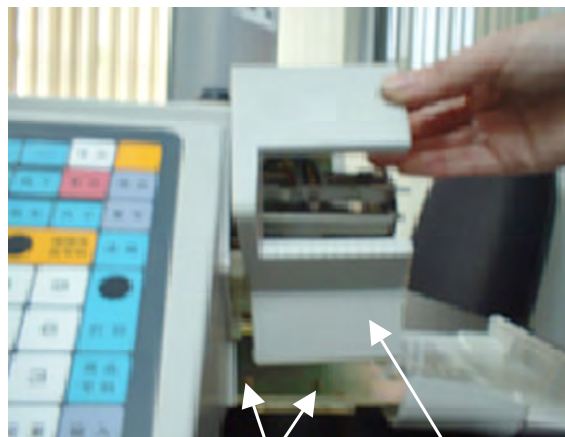
Screws

4.5 KEY SHEET REPLACEMENT

1. Remove the weigh platter.

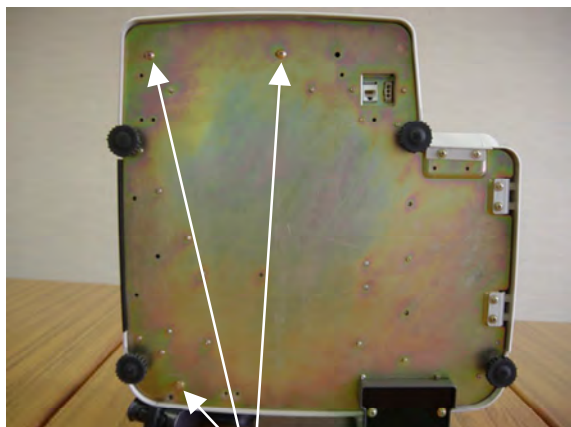


2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



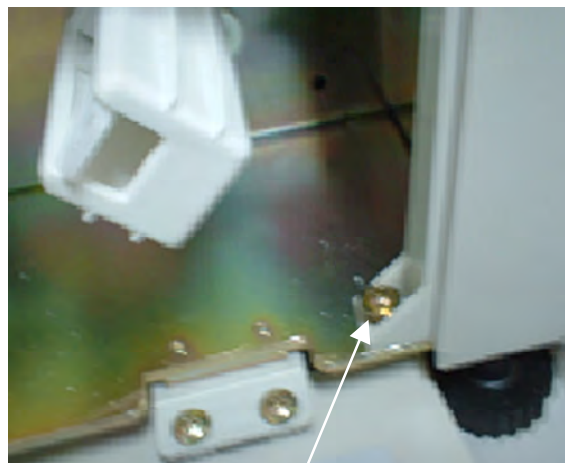
Screws Front cover

3. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



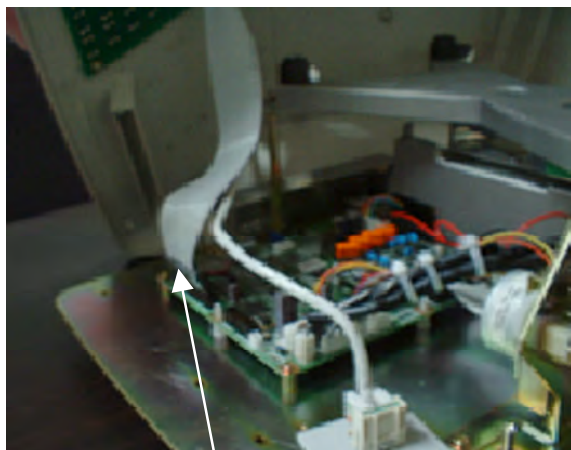
Screws

4. Remove the screw fixing the top cover of the printer unit.



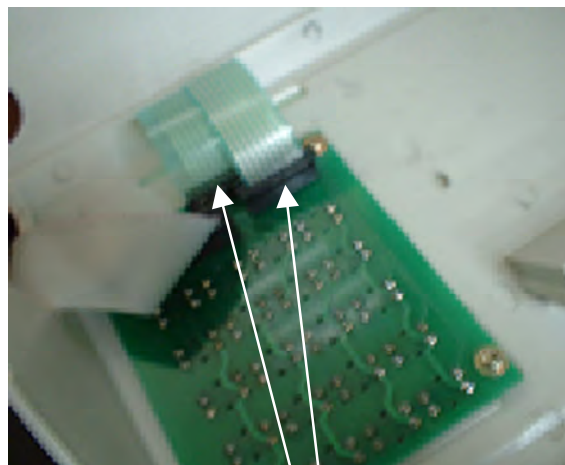
Screw

5. Detach the top cover, and remove the communication cable with the keyboard.



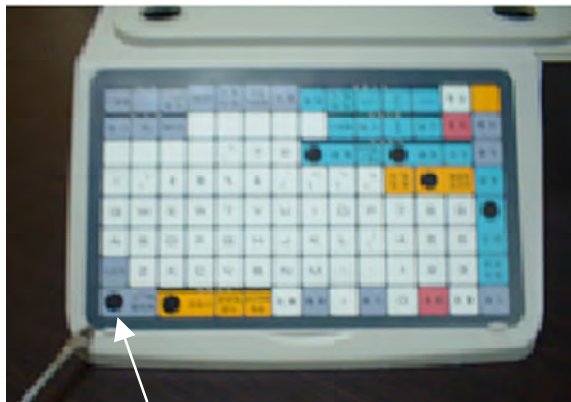
Keyboard communication cable

6. Pull out the key sheet flat communication cable connectors.



Key sheet cable connectors

7. Pull out the key sheet from the lower left side of the key sheet.

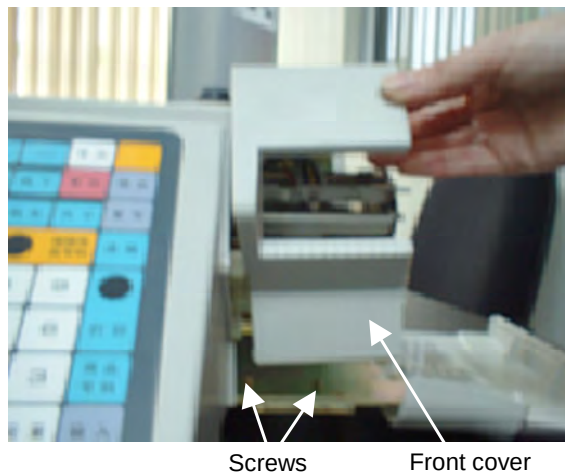


4.6 A/D BOARD REPLACEMENT

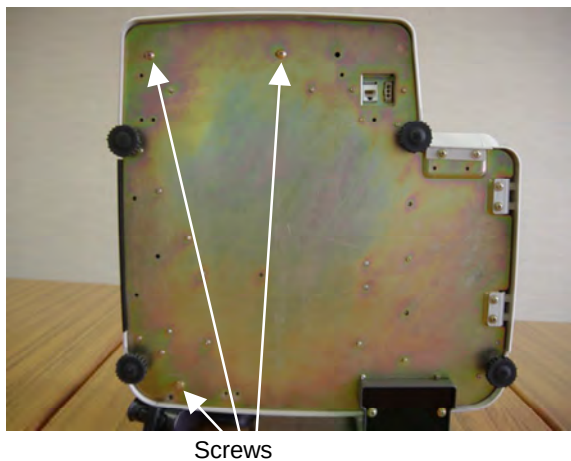
1. Remove the weigh platter.



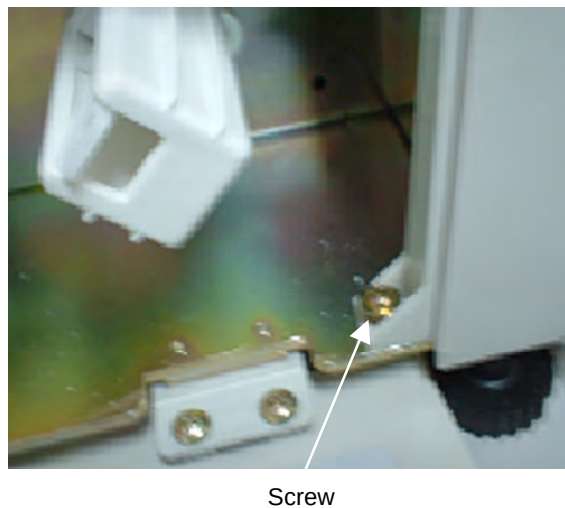
2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



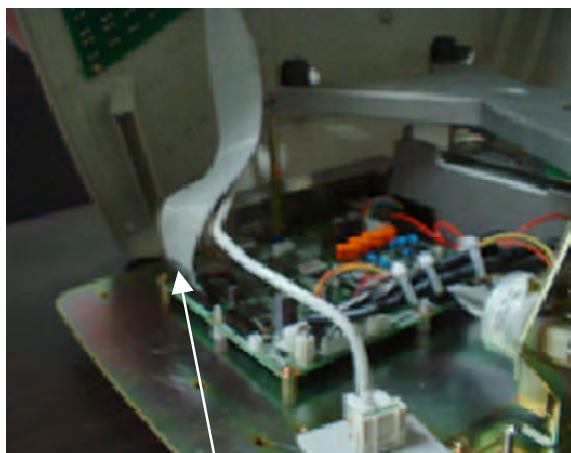
3. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



4. Remove the screw fixing the top cover of the printer unit.



5. Detach the top cover, and disconnect the communication cable with the keyboard.



Keyboard communication cable

6. Disconnect the load cell communication harness on the A/D board using a soldering tool, and remove the A/D board from the main board.



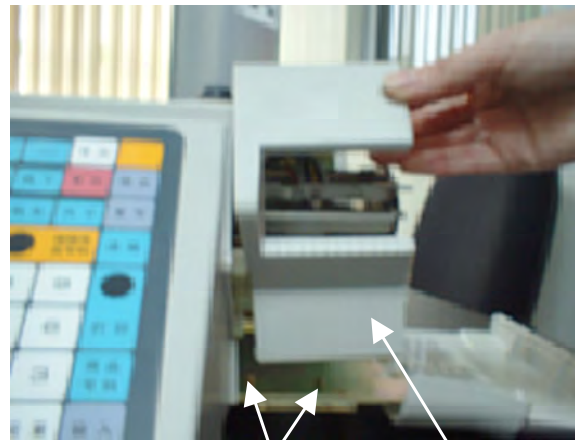
Load cell communication harness

4.7 POWER SUPPLY BOARD REPLACEMENT

1. Remove the weigh platter.

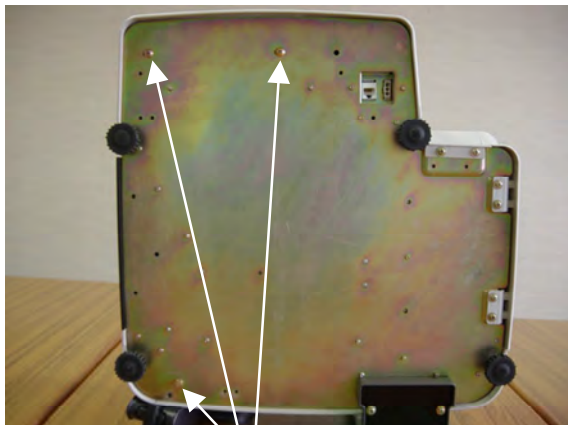


2. Dismount the front cover of the printer unit by removing the 2 fixing screws.



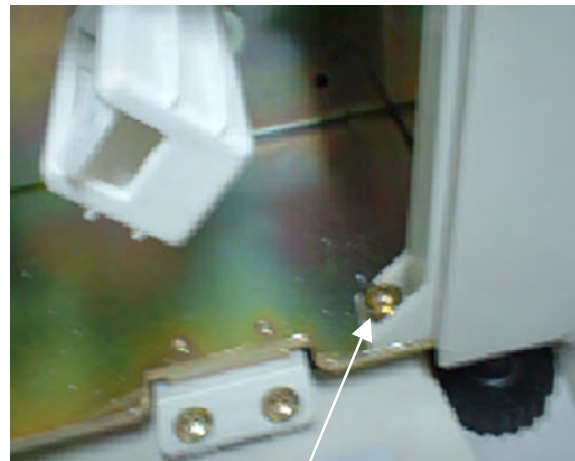
Screws Front cover

3. Remove the 3 screws located on the bottom of the machine that are fixing the top cover.



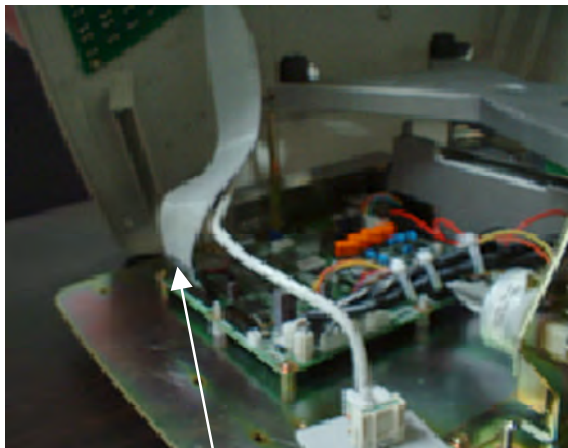
Screws

4. Remove the screw fixing the top cover of the printer unit.



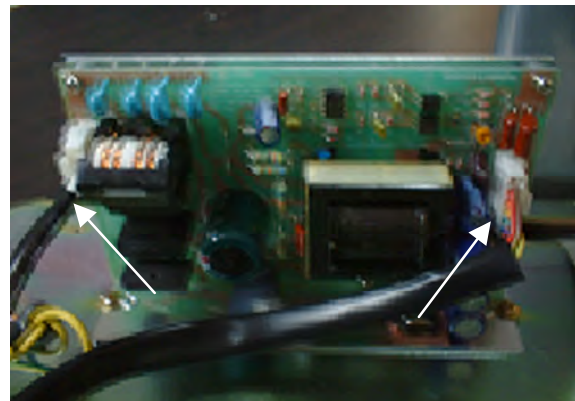
Screw

5. Detach the top cover, and remove the communication cable with the keyboard.

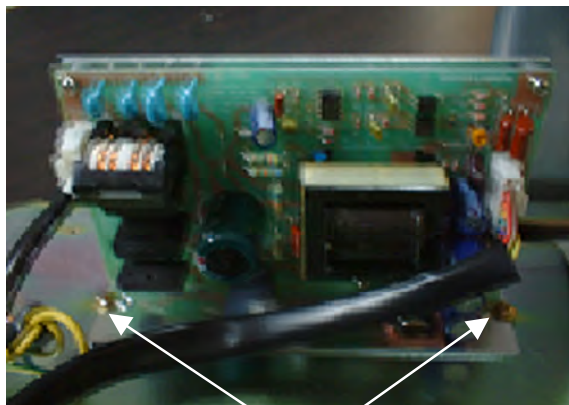


Keyboard communication cable

6. Pull out the 2 plugs on the power supply board.



7. Remove the 2 screws fixing the power supply board on the scale base, and detach the power supply board.



Screws

4.8 DISPLAY UNIT REPLACEMENT

1. Remove the 2 screws fixing the display unit with the pole.



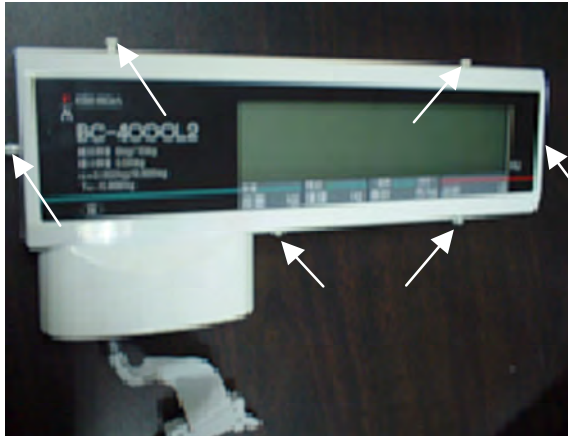
Screws

2. Pull out the display unit, and remove the flat cable connector of the display unit.



Connector

3. Pull out the 6 rubber stopper fixing the display cover.

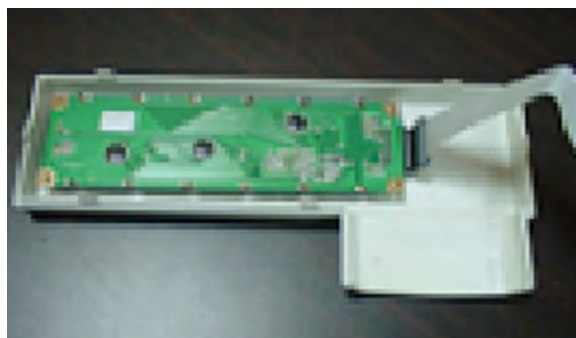


Rubber stoppers

4. Open the display cover.



Operator display



Customer display

5. Remove the 3 connectors on the junction board.



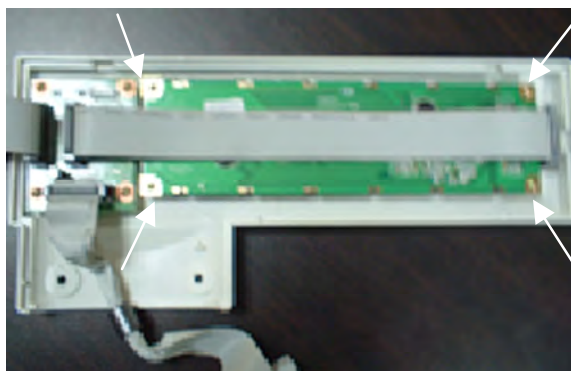
Connectors

6. Remove the 4 screws fixing the junction board.



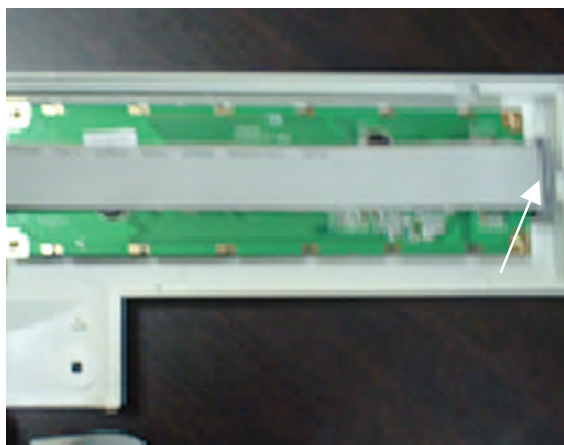
Screws

7. Remove the 4 screws fixing the operator display board.



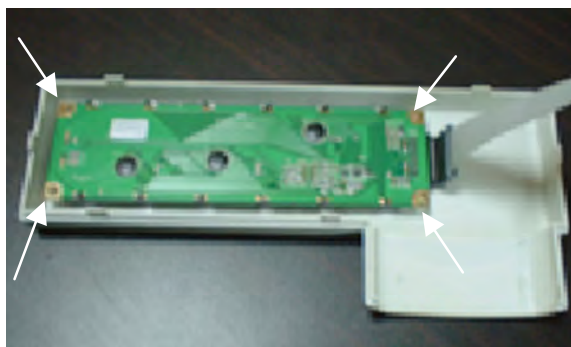
Screws

8. Remove the connector on the display board, and detach the operator display board.



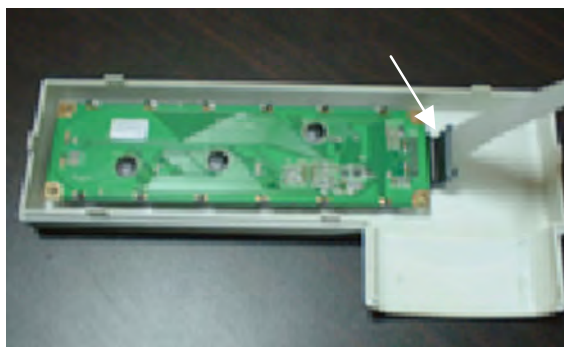
Connector

9. Remove the 4 screws fixing the customer display board.



Screws

10. Remove the connector on the display board, and detach the customer display board.



Connector

5. ERROR LIST & TROUBLESHOOTING

5.1 ERROR LIST

Error Message	Meaning	Operation
ERROR 2	Commodity name overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 3	POP message overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 4	Extra message overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 7	Store name/address overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 8	Run out of label paper	Press the [CLEAR] key to return to Normal Mode.
ERROR 9	Label size error	Press the [CLEAR] key to return to Normal Mode.
ERROR 10	Discount price calculation mistake	Press the [CLEAR] key to return to Normal Mode.
ERROR 11	Extra message 2 overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 12	Extra message 3 overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 13	Coupon message overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 16	Memory overflow	Press the [CLEAR] key to return to Normal Mode.
ERROR 21	Thermal head failure	Press the [CLEAR] key to return to Normal Mode.
ERROR 40	Memory error	Press the [CLEAR] key to return to Normal Mode.
WEIGHT OVER ERROR	Blank	
WEIGHT UNDER ERROR	-----	

5.2 TROUBLE SHOOTING

Phenomenon	Cause	Measures
Power is not supplied.	1. Power supply plug has loosened. 2. The fuse has blown out. 3. Main board is defective. 4. Power supply unit is defective. 5. Power switch is defective.	1. Insert the plug again. 2. Replace the fuse. 3. Check the main board, and replace it. 4. Check the power supply unit, and replace it. 5. Check the power switch, and replace it.
Test Mode is entered directly after the power has been turned OFF.	1. Main board is defective. 2. Key sheet is defective.	1. Check the main board, and replace it. 2. Check the key sheet, and replace it.
Machine does not stop operation after "TEST" is displayed.	1. Load cell is defective. 2. External vibration 3. A/D board is defective. 4. Main board is defective. 5. Power supply unit is defective.	1. Adjust the load cell, and replace it 2. Change the installation to a vibration-free place. 3. Check the A/D board, and replace it. 4. Check the main board, and replace it. 5. Check the power supply unit, and replace it.
Weight error occurred.	1. Limit stopper screw hits something. 2. There is a foreign object under the load cell. 3. A/D board is defective. 4. Load cell is defective. 5. Main board is defective.	1. Adjust the limit stopper screws. 2. Remove the foreign body. 3. Replace the A/D board. 4. Adjust the load cell, and replace it. 5. Check the main board, and replace it.
A specific program cannot be displayed.	1. Machine connection error 2. Main board is defective. 3. Display board is defective.	1. Check the machine connection. 2. Check the main board, and replace it. 3. Check the display board, and replace it.
A key doesn't work.	1. Key sheet is defective. 2. Machine connection error	1. Check the key sheet, and replace it. 2. Check the machine connection.
Registration data has changed.	1. Battery is defective. 2. Main board is defective. 3. Influence of external noise	1. Replace with a new battery. 2. Check the main board, and replace it. 3. Change the installation to a noise-free place.
Display disappears all while operating.	1. Power-supply voltage fluctuation 2. Power supply unit is defective. 3. Display board is defective. 4. Main board is defective.	1. Confirm the power-supply voltage. 2. Confirm the power supply unit, and replace it.

		3. Check the display board, and replace it. 4. Check the main board, and replace it.
Printing cannot be performed.	1. Head cable is defective. 2. Power supply unit is defective. 3. Thermal head is defective. 4. Main board is defective.	1. Confirm the power-supply voltage. 2. Confirm the permissible head voltage and replace the power supply unit. 3. Adjust the head, and replace it. 4. Check the main board, and replace it.



Design and specifications are subject to change without notice.

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